Innovative Control Technology





## Smart Automation in Heat Generation Plants





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### Smart Automation in Heat Generation Plants

"Smart automation" has become a buzzword, not only among planners and engineers of industrial applications. In heat supply, implementing smart, efficient control systems to economically operate plants is equally important.

The requirements placed on automation systems used in thermal plants are growing more and more complex. Today, the focus no longer lies on controlling the instruments in the plants, i.e. valves, pumps and actuators: the market sets new challenges in terms of smart control systems for the manufacturers. For example, reading data from smart heat meters, visualizing entire plants, and making logged data readable are basic requirements to be complied with when implementing projects. Of course, the same requirements apply to district heating applications, particularly if they are installed in large properties or entire residential areas. To distribute the heat generated in the heating plant without wasting energy and thus cost effectively across the residential areas, more and more energy suppliers install heat exchanger applications in small transfer stations spread across the heating network. The district heat provided is routed through heat exchangers and distributed to the consumers as required. If large-scale consumers, such as property management companies, use central heat transfer stations to distribute the delivered district heat to several apartment blocks, they usually implement heat exchanger sequence control.

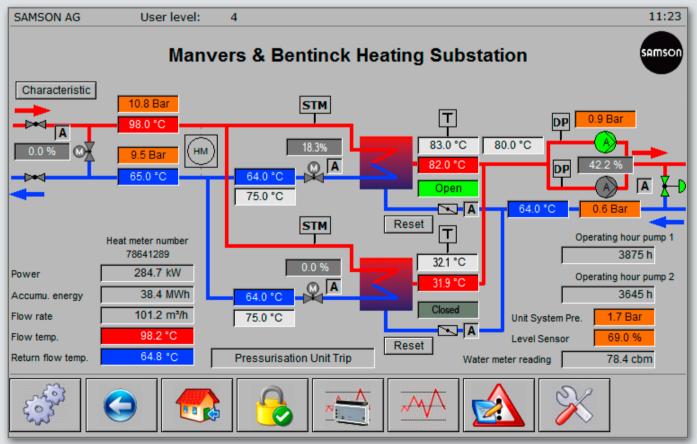


Fig. 1: Hydraulic scheme of the plant



Fig. 2: Central TROVIS 6610 CPU Module of the TROVIS 6600 Automation System

This allows the received thermal output to be reduced in times of weak loads by shutting off the heat exchanger connected in sequence. In peak load times, however, the full capacity is required. As a result, the automation system releases the sequence heat exchanger, controls the flow temperature, monitors the return flow temperature – optionally for violation of a fixed limit or a value depending on the outdoor temperature –, and controls shut-off butterfly valves and supply pumps.

These requirements make it necessary for manufacturers to no longer act as mere suppliers of devices but to provide customers with comprehensive turnkey solutions.

SAMSON has already completed a large number of projects in Germany and abroad. A current example is the residential area scheme implemented in the English city of Nottingham by Vital Energi, Enviroenergy and SAMSON Controls. Each of two residential areas is connected to the existing district heating network using a heat transfer station.

At each station, heat exchanger sequence control is implemented but sized and configured differently to cater for the different capacities consumed in the secondary circuit. The first station comes with two heat exchangers each delivering 600 kW at a connection size of DN 65. In the primary circuit, the temperature ratio is 110 °C to 70 °C, in the secondary circuit 85 °C to 65 °C. In the second station, delivery of each heat exchanger is 1 MW with a connection size of DN 80 installed in the primary circuit and DN 125 in the secondary circuit.

SAMSON Controls supplied the customer with electric control valves, flow regulators, sensors, thermostats, and the TROVIS 6600 Automation System for smart automation of the heat exchanger sequence control loops. But what tasks exactly does "smart automation" entail in heat supply?

#### Heat exchanger sequence

Each heat exchanger is fitted with an electric control valve in the primary circuit and a shut-off butterfly valve in the secondary circuit. The flow and return flow temperatures are measured in the supply line and in the customer circuit, and binary operating and fault messages are recorded. These messages are transmitted to the TROVIS 6600 Automation System. The system is scalable with the central TROVIS 6610 CPU Module performing the smart plant management. The CPU module is a freely programmable control unit with 20 universal inputs to optionally record binary or analog signals. In addition, twelve binary outputs and eight continuous voltage outputs are available. The system can be extended using different I/O modules, i.e. it can be adapted individually to match customer requirements.

Set points, parameters and characteristics are adjusted on the touch panel in the switching cabinet or on a mobile device. The implemented application calculates the secondary flow set point depending on the outdoor temperature, optionally based on a gradient or four-point characteristic. Of course, operators can also adjust a fixed value. To ensure that the heat exchangers work for nearly the same time, all heat exchanger demands are routed through an operating hours counter. If the operating time exceeds an adjustable threshold, the sequence of the heat exchangers is switched, causing the exchanger so far used on stand-by to take over control operation. The system detects faults occurring in a heat exchanger branch and immediately releases the second heat exchanger. Fault messages can be issued, for example, when the safety temperature limiter has been triggered or when the butterfly valve does not respond to a heat exchanger demand. The shut-off butterfly valves installed in the secondary circuit prevent the medium from flowing through a heat exchanger without demand and thus stopping the loss of heat energy. The primary return flow temperature is monitored for violation of a limit. If the measured temperature exceeds this limit, the flow set point is reduced accordingly. As a result, the system only intervenes in control operation to the degree required for the particular situation.

#### Double pumps

Pumps account for approximately ten percent of the worldwide energy consumption. The challenge in smart automation is to minimize the pumps' operating hours and speeds in every plant. Vital Energi opted for installing double pumps controlled by the differential pressure into the heat transfer stations. This plant section is controlled by the TROVIS 6600 Automation System as well. The differential pressure sensors are connected to the automation system using a 4 to 20 mA signal. Operators can flexibly adjust the differential pressure set point on the graphical user interface. Based on the difference between set point and actual value, a control algorithm calculates the perfect pump speed. Pump use is also switched based on the operating hours. Alternatively, pump control can be configured in split-range operation. The web interface



Fig. 3: Electric control valve with flow regulator to control the primary bypass

additionally allows for manual operation of all plant components at any time, even from remote locations. To ensure that the pumps achieve their minimum speeds during low-load operation without having to transfer too much heat energy into the heating network unnecessarily, Vital Energi included a pump bypass. The pump bypass is opened based on a linear function when the calculated pump speed is lower than the pumps' minimum speed. This enables the system to operate the double pumps in an efficient and economically viable way.

To also minimize the speeds of the network pumps for the heating network operator, an additional bypass has been integrated into the primary circuit of the system. This bypass allows the heat exchanger sequence control to be shut off the network entirely. The bypass can be closed when the network temperature and heat demand are low during the summer months. This prevents the flow from being routed through unused heat exchangers without demand.

#### **Recording meter data**

In addition to actually controlling the system, analyzing consumption data is becoming more and more important. In most cases, these data are read from the smart heat meters using the meter bus or M-Bus. The bus uses electric data transmission and shows little susceptibility to faults, which makes it perfectly suited for use in thermal systems where frequency-driven pumps have meanwhile become the standard choice. In the heat transfer station in Nottingham, the heat meters are connected to the TROVIS 6600 Automation System using SAMSON's own gateway. The gateway converts the M-Bus signals into the TCP/IP protocol, which allows the meter data to be read and processed by the smart automation system. The system automatically reads the meter address and saves the measured flow and return flow temperatures, flow rate, capacity and work with their associated units into a file. Operators can use the web interface to configure the interval at which data are saved. Possible options are every 15 minutes as well as once per day, month or year. Operators can also decide on the contents and format of the log file. As the data can automatically be polled over the Internet, importing them into a billing software is possible without any problems. The recorded data can just as easily be visualized on the automation system's graphical web interface. As a result, consumption can be analyzed over the year and savings potentials can be detected and exploited.

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The Pump 2         0.0 s         Mon Flow Temperature to activate the	mate pressure control - VP Pump 1         0.4         Heat Exchanger 401 - 71         100.0 s           mate pressure control - Th Pump 1         100.0 s         Heat Exchanger 401 - 71         100.0 s           mate pressure control - Th Pump 2         0.4         Heat Exchanger 402 - 10 <sup>2</sup> 100.0 s           mate pressure control - Th Pump 2         100.0 s         Man Flow Tumperature to activated Byses         60.0 s           mate pressure control - Th Pump 2         100.0 s         Man Flow Tumperature to activated Byses         60.0 °C           man Return Type Mode         00.0 °C         OFF-Time Flage Fundors         2.0 mm           man Return Type Mode         00.0 °C         OFF-Time Flage Fundors         2.0 mm           man Flow Tumpesture to activated Pumpe         0.0 °C         OFF-Time Flage Fundors         2.0 mm           man Flow Tumpesture to activated Pumpe         0.0 °C         OFF-Time Flage Fundors         2.0 mm	while pressure context - KP Pump 1         0.4         Heat Exchanger A01 - Tri         180.0 s - 180.0 s	Internital pressure control - NP Pump 1         0.4         Heat Exchanger A01 - TN         180.0 s           Internital pressure control - Tn Pump 2         0.0 s         Heat Exchanger A02 - KP         10           Internital pressure control - Tn Pump 2         0.4         Heat Exchanger A02 - KP         10         180.0 s           Internital pressure control - Tn Pump 2         0.4         Heat Exchanger A02 - TN         180.0 s         86.0 °C           Internital pressure control - Tn Pump 2         10.0 s         Min Rive Temperature to activate Bipass         85.0 °C           Internitial pressure control - Tn Pump 2         10.0 s         Min Rive Temperature to activate Dispass         85.0 °C           Internitial pressure control - Tn Pump 2         10.0 s         Min Rive Temperature to activate Dispass         85.0 °C           Internitial pressure control - Tn Pump 2         10.0 s         Min Rive Temperature to activate Dispass         2.0 min           Internitian         1.0 min         Min Rive Temperature to activate Durge Min Rive Temperature to activate Durge         2.0 min	evental pressure contor - NP Pump 1         0.4         Heat Exchanger A01 - TN         100 ds           mendal pressure control - TR Pump 1         100 s         Heat Exchanger A02 - NP         100 s           mendal pressure control - NP Pump 2         0.4         Heat Exchanger A02 - NP         100 s           mendal pressure control - TN Pump 2         100 s         Heat Exchanger A02 - NP         100 s           mendal pressure control - TN Pump 2         100 s         Min Row Temperature to activated Dipass 5         85.0 °C           memory Batter Day Mode         80.0 °C         CVF Time Purgs Function         1.9 min           memory Return Flow Temp         75.0 °C         OVF Time Purgs Function         2.9 min           Min River Temperature to activated Purgs         0.5 °C         0.0 °C more thange activation         2.9 min           Return Flow Temp         10.5         Min River Temperature to activated Purgs         60.5 °C	Hereital pressure contol - KP Pump 1         0.4         Heat Exchanger A01 - TN         100.0 s           Hereital pressure contol - TAP Imp 1         0.0 s         Heat Exchanger A02 - KP         100           Heat Exchanger A02 - KP Imp 2         0.0 s         Heat Exchanger A02 - KP         100         100 s           Hereital pressure contol - TAP Imp 2         0.4         Heat Exchanger A02 - KP         100 s         100 s           Hereital pressure contol - TAP Imp 2         0.5 s         Min Pior Emperature to achiete Bigsas         E5.9 °C           M Temperature Steport Day Mode         80.0 s °C         0/F Time Parage Function         1.0 min           M Temperature Steport Day Mode         7.8 °C         0/F Time Parage Function         1.2 min				samsor
Revential pressure control - NP Pump 1         0.4         Heat Exchanger A01 - TN         100 5 s           Revential pressure control - NP Pump 2         0.0 s         Heat Exchanger A02 - NP         100 5 s           Revential pressure control - NP Pump 2         0.4         Heat Exchanger A02 - NP         100 5 s           Revential pressure control - NP Pump 2         0.4         Heat Exchanger A02 - NP         100 5 s           Mon Prove Exception 2         0.0 s         0.0 Trol - NProgr Fundion         100 3 m           Mon Prove Exception 2         0.0 S m         0.0 Trol - NProgr Fundion         10 mm           Referencial preservation 2 month         1.0 B mOnth         0.0 Trol - NProgr Fundion         1.0 mm           Referencial preservation 2 month         0.0 D °C         0.0 Trol - NProgr Fundion         0.0 MONTH         0.0 MONT	Define sharp server control - VP Nump 1         0.4         Heat Exclarage 4.01 - TV         100 or           Define sharp server control - TV Nump 1         100 or         Heat Exclarage 4.20 - XP         100           Define sharp server control - VP Nump 2         0.4         Heat Exclarage 4.20 - XP         100 or           Define sharp server control - VP Nump 2         0.4         Heat Exclarage 4.20 - XP         100 or           Define sharp server control - VP Nump 2         100 a         Mo Flow Temperature to actuate 8 (Flow 3.00 or         50 °C           Define sharp server control - VP Nump 2         100 a         Mo Flow Temperature to actuate 8 (Flow 3.00 or         10 mm           Manneum Return Flow Temp         76.4 °C         OFF. Time Funge Function         2 mm           MP Return Flow Limitation         10         Min Flow Temperature to actuale Purge         0.00 °C           Time to core Hange Hick-Noiz         2 00 °C         100 °C         200 °C         0.00 °C	Otherential gives surve control - KP Pump 1         0.4         Heat Exchanger A01 - TN         100           Otherential gives control - TA Pump 1         0.0 Is         Heat Exchanger A02 - KP         100           Otherential gives control - TA Pump 2         0.4         Heat Exchanger A02 - TN         100           Otherential gives control - TA Pump 2         0.3         Man Pixer Exchanger A02 - TN         100           Otherential gives control - TA Pump 2         0.03         Man Pixer Emperature to achivet 8 (gass 18)         150           Otherential gives control - TA Pump 2         0.03 °C         CM - Time Pumpe Fundum 10         100           Determinin Ream / Pow Terring         75.5 °C         CM - Time Pumpe Fundum 12         2.2	Lat pressure control - KP Pump 1         0.4         Head Exchanger A01 - TN         180 or           Lat pressure control - To Pump 1         10 b at         Head Exchanger A01 - TN         180 or           Lat pressure control - To Pump 2         0.4         Head Exchanger A02 - KP         180 or           Lat pressure control - To Pump 2         10 b at         Man Flow Temperature to activate Bipsace         65 or           Description Day Mode         80 0° C         Of-Time Purge Fundon         10 or           Return Flow Temperature to activate Bipsace         75 0° C         OF-Time Purge Fundon         2 or           Tobu Limitation         1.0         Man Flow Temperature to activate Depart         20 or	Interdial pressure control - VP Pump 1         0.4         Head Extransper 401- TPL         100 5 1           Interdial pressure control - TP Pump 2         0.0         Head Extransper 402 - XP         100 5 1           Interdial pressure control - TP Pump 2         0.4         Head Extransper 402 - XP         100 5 1           Interdial pressure control - TP Pump 2         0.3         Mon Point Temperature to activate the Statistical Physics 8         8.5 0*           Internetial pressure control - TP Pump 2         10.3 a         Mon Point Temperature to activate the Statistical Physics 8         8.5 0*           Internetial pressure control - TP Pump 2         10.0 a         Mon Point Temperature to activate to activate the Statistical Physics 8         8.5 0*           Internetial pressure control - TP Pump 2         10.0 a         Mon Point Temperature to activate to activate the Statistical Physics 8         8.5 0*           Internetial pressure control - TP Pump 2         10.0 a         Mon Point Temperature to activate to activate the Statistical Physics 8         8.5 0*           Internetial pressure to activate to a	versitil pressure contol - KP Pump 1         0.4         Heat Exchanger A01 - TN         180.0 s           versitil presser contol - KP Pump 2         10.3 s         Heat Exchanger A02 - XP         10.0 s           versitil presser contol - KP Pump 2         0.4         Heat Exchanger A02 - XP         10.0 s           versitil presser contol - KP Pump 2         0.4         Heat Exchanger A02 - XP         10.0 s           versitil presser contol - KP Pump 2         0.0 s         Min Row Temperature to activated Ripsas         80.0 °C           of Romperature Setpoint Day Mode         60.0 °C         OF - Time Purge Fundion         1.0 min           Refersitive Aux Value         0.0 °C         OF - Time Purge Fundion         0.0 Min Row Temperature to activated Ripsas         60.0 °C           Refersitive Aux Value         0.0 °C         Time for sent Rips Fundion         0.0 Min Row Temperature to activated Ripsas         60.0 °C           Ad Change of the Heat exchangers         10.0 min         Time for sent Rips Fich-402         24.0 s           Vi-Signal for sentor N2 HEAX         0.0 5 °C         Time book Rips Rips Fich-402         24.0 s           Vi-Signal for sentor N2 HEAX         0.0 5 °C         Time book Rips Rips Fich-402         24.0 s	while pressure control - VP Pump 1         0.4         Heat Exchanger AD - Th(         100.0 s           while pressure control - The Pump 1         10.0 s         Heat Exchanger AD - Th(         100.0 s           while pressure control - The Pump 2         0.0 s         Heat Exchanger AD - Th(         100.0 s           while pressure control - The Pump 2         0.0 s         Mon Flow Temperature to activate the	mate pressure control - VP Pump 1         0.4         Heat Exchanger 401 - 71         100.0 s           mate pressure control - Th Pump 1         100.0 s         Heat Exchanger 401 - 71         100.0 s           mate pressure control - Th Pump 2         0.4         Heat Exchanger 402 - 10 <sup>2</sup> 100.0 s           mate pressure control - Th Pump 2         100.0 s         Man Flow Tumperature to activated Byses         60.0 s           mate pressure control - Th Pump 2         100.0 s         Man Flow Tumperature to activated Byses         60.0 °C           man Return Type Mode         00.0 °C         OFF-Time Flage Fundors         2.0 mm           man Return Type Mode         00.0 °C         OFF-Time Flage Fundors         2.0 mm           man Flow Tumpesture to activated Pumpe         0.0 °C         OFF-Time Flage Fundors         2.0 mm           man Flow Tumpesture to activated Pumpe         0.0 °C         OFF-Time Flage Fundors         2.0 mm	while pressure context - KP Pump 1         0.4         Heat Exchanger A01 - Tri         180.0 s - 180.0 s	Internital pressure control - NP Pump 1         0.4         Heat Exchanger A01 - TN         180.0 s           Internital pressure control - Tn Pump 2         0.0 s         Heat Exchanger A02 - KP         10           Internital pressure control - Tn Pump 2         0.4         Heat Exchanger A02 - KP         10         180.0 s           Internital pressure control - Tn Pump 2         0.4         Heat Exchanger A02 - TN         180.0 s         86.0 °C           Internital pressure control - Tn Pump 2         10.0 s         Min Rive Temperature to activate Bipass         85.0 °C           Internitial pressure control - Tn Pump 2         10.0 s         Min Rive Temperature to activate Dispass         85.0 °C           Internitial pressure control - Tn Pump 2         10.0 s         Min Rive Temperature to activate Dispass         85.0 °C           Internitial pressure control - Tn Pump 2         10.0 s         Min Rive Temperature to activate Dispass         2.0 min           Internitian         1.0 min         Min Rive Temperature to activate Durge Min Rive Temperature to activate Durge         2.0 min	evental pressure contor - NP Pump 1         0.4         Heat Exchanger A01 - TN         100 ds           mendal pressure control - TR Pump 1         100 s         Heat Exchanger A02 - NP         100 s           mendal pressure control - NP Pump 2         0.4         Heat Exchanger A02 - NP         100 s           mendal pressure control - TN Pump 2         100 s         Heat Exchanger A02 - NP         100 s           mendal pressure control - TN Pump 2         100 s         Min Row Temperature to activated Dipass 5         85.0 °C           memory Batter Day Mode         80.0 °C         CVF Time Purgs Function         1.9 min           memory Return Flow Temp         75.0 °C         OVF Time Purgs Function         2.9 min           Min River Temperature to activated Purgs         0.5 °C         0.0 °C more thange activation         2.9 min           Return Flow Temp         10.5         Min River Temperature to activated Purgs         60.5 °C	Hereital pressure contol - KP Pump 1         0.4         Heat Exchanger A01 - TN         100.0 s           Hereital pressure contol - TAP Imp 1         0.0 s         Heat Exchanger A02 - KP         100           Heat Exchanger A02 - KP Imp 2         0.0 s         Heat Exchanger A02 - KP         100         100 s           Hereital pressure contol - TAP Imp 2         0.4         Heat Exchanger A02 - KP         100 s         100 s           Hereital pressure contol - TAP Imp 2         0.5 s         Min Pior Emperature to achiete Bigsas         E5.9 °C           M Temperature Steport Day Mode         80.0 s °C         0/F Time Parage Function         1.0 min           M Temperature Steport Day Mode         7.8 °C         0/F Time Parage Function         1.2 min	Satopint Purpos 0.9 Bar Heat Exchanger A01 - KP 1/	Refinert Pumps 0.9 Bar Hest Exchanger A01 - KP 10	VP Setnoird Purpos	1.0
Benefab grasses control - Th Pump 1         40.5 k         Heat Exchanger 40.2 - KP         10.1 k           Benefab grasses control - Th Pump 2         8.4         Heat Exchanger 40.2 - KP         198.0 s           Benefab grasses control - Th Pump 2         8.4         Heat Exchanger 40.2 - KP         198.0 s           Star Terrenda grasses control - Th Pump 2         8.4         Heat Exchanger 40.2 - KP         198.0 s           Star Terrenda grasses control - Th Pump 2         8.0 s         CO X Time Purge Function         1.0 m           Star Terrenda grasses control - Th Pump 2         7.5 °C         CV Time Purge Function         1.0 m           Star Terrenda grasses control - Th Pump 2         7.5 °C         CV Time Purge Function         1.0 m           Verticestarter King Mole         0.0 °C         CP Time Purge Function         0.0 0.2 °C         2.0 min           Verticestarter King Mole         0.0 °C         Time to cope Flop Hole         0.0 0.2 °C         2.0 min           Verticestarter King Mole         0.0 °C         Time to cope Flop Hole         2.0 min         1.0 min           Verticestarter King Mole         1.0 °C         Time to cope Flop Hole         1.0 min         1.0 °C           Verticestarter King Mole         1.0 °C         Time to cope Flop Hole         1.0 min         1.0 °C	Differential pressure control - Th Pump 1         100 s         Head Exchanger A02 - KP         10           Differential pressure control - VP Pump 2         0.4         Head Exchanger A02 - KP         100 to 100	Othershall greaseuse conder - The Pump 1         -0.0 a         Heat Exchanger Ad2 - KP         -14           Othershall greaseuse conder - The Pump 2         -0.4         Heat Exchanger Ad2 - KP         14           Menindlar greaseuse conder - The Pump 2         -0.4         Heat Exchanger Ad2 - TN         14           Menindlar greaseuse conder - The Pump 2         -0.0         Heat Exchanger Ad2 - TN         14           Start Exchanger Ad2 - TN         16.0 a         TO 2 a         Heat Exchanger Ad2 - TN         15           Start Exchanger Ad2 - TN         17         17         17         TO 2 a         Heat Exchanger Ad2 - TN         15           Start Exchanger Ad2 - TN         17         17         17         TO 2 a         Heat Exchanger Ad2 - TN         15           Start Exchanger Ad2 - TN         17         17         TO 2 a         16         16         16           Start Exchanger Ad2 - TN         17         17         16         16         17         16         16         17         16         16         17         16         16         17         16         16         17         16         16         17         16         17         16         16         17         16         17         16         17	tal pressure control - To Pump 1         10.0 s         Heat Exchanger A22 - KP         10           al pressure control - KP Pump 2         0.4         Heat Exchanger A22 - KP         100           ap ressure control - NP Pump 2         0.4         Heat Exchanger A22 - KP         100           ap ressure control - NP Pump 2         0.0         Mon Pum 2         100 a           ap ressure control - NP ump 2         0.0         Mon Pum 1         100 a           mprovalue Stationard Day Mode         0.0 °C         OF-Time Purge Fundon         1.0 min           n Return Flow         1.0         Mon Pum Time Purge Fundon         2.0 min           n Poly Limitation         1.0         Mon Pum Timese Pump 1         0.0 3.2%	sensibility pressure control - Tri Pump 1         10.0 s         Head Exchanger A02 - KP         10.0 s           mental pressure control - VP Pump 2         0.4         Head Exchanger A02 - KP         10.0 s           mental pressure control - VP Pump 2         0.4         Head Exchanger A02 - KP         10.0 s           w Temperature Setpoint Day Mode         80.9 °C         OV Films Purge Function         1.0 mm           Refer Trips (Linkton         1.0         Min Prov Temperature tackvitet Bipsase         0.0.5 °C         Min Prov Temperature tackvitet Bipsase         0.0.5 °C           Refer Trips (Linkton         1.0         Min Prov Temperature tackvitet Bipsase         0.0.5 °C         Time to open Figo FEX-4/02         2.40 S rs           a Change of Bie heat exchangers         160.0 m         Time to acto         1.0 mm         Time to acto         1.0 mm	sensitivity pressure control - Tin Timp 1         10.0 s         Heat Exchanger A02 - KP         10           sensitivity pressure control - Tin Young 2         10.0 s         Heat Exchanger A02 - KP         100.0 s           sensitivity pressure control - Tin Young 2         10.0 s         Heat Exchanger A02 - KP         100.0 s           F Emperature Steport Day Model         80.0 s °C         CVF. Time Purg F and/one         1.0 min           Refers Time Time         79.5 °C         CVF. Time Purg F indice         2.0 min           Refers Time Time         79.5 °C         CVF. Time Purg F indice         0.0 0.0 °C           Refers Time Time         79.5 °C         CVF. Time Purg F indice         0.0 0.0 °C           Refers Time Time         79.5 °C         CVF. Time Purg F indice         0.0 0.0 °C           Time To specific Time Time         70.0 °C         Time To specific Time Control Time To specific Time Time Time Time Time Time Time Time	entral pressure control - Tn Pump 1         10.9 s         Heat Exchanger A02 - KP         10.0 s           entral pressure control - KP Pump 2         0.4         Heat Exchanger A02 - KP         10.0 s           entral pressure control - TN Pump 2         0.4         Heat Exchanger A02 - KP         10.0 s           Temperature Setport Day Mode         00.0 °C         004 Time Purgs Function         1.0 min           mum Realm Flow Time.         75.9 °C         004 Time Purgs Function         1.0 min           Temperature Setport Day Mode         0.0 °C         004 Time Purgs Function         1.0 min           Temperature Nav Keise         0.0 °C         Time Fourge Function         0.0 °C           Temperature Nav Keise         0.0 °C         Time for temperature tax kinkel Nave         0.0 °C           Temperature Nav Keise         0.0 °C         Time to open Fige HCK+02         2.40 0 s           Charge of the heat exchangers         160 °D         Time back to aute         1.0 min	ntial pressure control - Tn Pump 1         10.9 s         Heat Exchanger A22 - NP         1.0           ntial pressure control - NP Pump 2         0.4         Heat Exchanger A22 - NP         1.00           ntial pressure control - NP Pump 2         0.4         Heat Exchanger A22 - NP         1.00           ntial pressure control - NP Pump 2         0.4         Heat Exchanger A22 - NP         1.00           ntial pressure control - NP Pump 2         0.4         Heat Exchanger A22 - NP         1.00           interpressore control - NP Pump 2         0.4         Heat Exchanger A22 - NP         1.00           interpressore control - NP Pump 2         0.4         0.4         1.00         1.00           interpressore control - NP Pump 2         0.00 °C         OFF.Trme Pump Exchanger A22 - NP         1.00         1.00           interpressore control - NP Pump 2         0.5 °C         OFF.Trme Pump Exchanger A22 - NP         0.00 °C         1.00         1.0	antial pressure control - Tn Pump 1         100 s         Haat Exchanger A02 - KP         100 s           ential pressure control - KP Pump 2         0.4         Heat Exchanger A02 - TN         100 s           ential pressure control - CP Pump 2         0.4         Heat Exchanger A02 - TN         100 s           femperature Serpoint Day-Mode         0.0 s         0.6 Time Purge Function         1.0 mm           num Return Prov Temp         75.0 °C         0FF. Time Purge Function         2.0 mm           num Return Prov Temp         1.0         Min Flow Temperature SackWed Purge         20.0 °C           Temperature Max Value         0.0 °C         Time to cent Flap HEX+A2         2.40 rs	Internatio pressure control - Tn Pump 1         10.0 s         Heat Exchanger AQ - XP         10.0 s           Internatio pressure control - XP Pump 2         0.4         Heat Exchanger AQ - XP         10.0 s           Internatio pressure control - XP Pump 2         0.4         Heat Exchanger AQ - XP         10.0 s           Internatio pressure control - XP Pump 2         0.0 s         International Pump 2         0.0 s           Internationary end Construction Pump 2         0.0 s         International Pump 2         0.0 s           Internationary end Construction Pump 2         0.0 s         International Pump 2         0.0 s           Internationary end Construction Pump 2         0.0 s         International Pump 2         0.0 s           Internationary end Construction Pump 2         0.0 s         International Pump 2         0.0 s           Internation Pump 2         1.0 s         International Pump 2         0.0 s         0.0 s	sensitial pressure control - Tn Pump 1         10.0 s         Heat Exchanger AQ - KP         10.0 s           meterial pressure control - KP Hump 2         0.4         Heat Exchanger AQ - KP         10.0 s           meterial pressure control - KP Hump 2         0.4         Heat Exchanger AQ - KP         10.0 s           meterial pressure control - KP Hump 2         0.0 s         Heat Exchanger AQ - KP         10.0 s           meterial pressure control - KP Hump 2         0.0 s         Heat Exchanger AQ - KP         10.0 s           meterial pressure control pressure control of KP Hump 4         80.0 °C         OVE Time Purge Function         1.0 mm           mem Return Flow Temp         75.0 °C         OFF Time Purge Function         2.0 mm           fielden Tiwe Limitation         1.0         Min Flow Temperature is activated Flows         6.05 °C	Merchiki pressure control - To Tump 1         -0.0 a         Heat Exchangee AD2 - KP         10           Merchiki pressure control - KP Fung 2         -0.4         Heat Exchangee AD2 - KP         100.0 a           Merchiki pressure control - KP Fung 2         -0.4         Heat Exchangee AD2 - KP         100.0 a           Mini For Tum 2         -0.5 a         Heat Exchangee AD2 - KP         100.0 a           Mini For Tum 2         -0.5 a         Heat Exchangee AD2 - KP         10.0 a           Mini For Tum 2         -0.5 a         Heat Exchangee AD2 - KP         10.0 a           Mini For Tum 2         -0.5 a         Heat Exchangee AD2 - KP         10.0 a           Mini For Tum 2         -0.5 a         TO TUM 10 A         10.0 min           Mini For Tum 2         -0.5 a         CP Time Fung Fundon         10.0 min				
Mercedult pressure control - Tn Pump 2         10.8 s         Min River Temperature to activate Bippuss         85.0 °C           Min Interventure Stelphone Disy Adad         80.0 °C         OV-Time Purge Function         10.8 min           Ream Riskin Parket         7.8 °C         OV-Time Purge Function         10.8 min           Ream Riskin Parket         7.8 °C         OV-Time Purge Function         2.0 min           Ream Riskin Parket         0.0 °C         Time to oper Funge Purge Fundon         0.0 0.7 °C           Marcescaret Read Wall         0.0 °C         Time to oper Funge Purge Fundon         0.0 0.7 °C           Marcescaret Read Rest Read Read Read Read Read Read Read Read	Deterministic pressure contex - 16 mm 2 2         10.9 E         Mo F intermentative to detected Rippas a         55.7 E           Plan Temperature Setpoint Day Mode         80.9 °C         OH Time Progr Fancton         1.9 mm           Reamon Return Tork Limitation         75.9 °C         OH Time Progr Fancton         2.9 mm           RP Return Tork Limitation         1.0         Mo F Inter Progr Fancton         0.00 °C           RP Return Return Return Rev View         0.0 °C         Time to open Reput Rev View         0.00 °C           Plan Time Tore Rev Rev Rev View         0.00 °C         0.00 °C         0.00 °C	Atterential pressure control - Tn Pump 2         10.0 s         Min Riow Temperature to activated Bypass.         855           Now Temperature Selpoint Day-Mode         80.0 °C         ON-Time Purge Function         10           Assemum Return Flow Temp.         75.0 °C         OFF-Time Purge Function         2.0	Jaip pressure control - Tn Pump 2         10.0 s         Min Riow Temperature to activate Bippass         65.0 °C           mperature to activate Control - Trine Punge Fundion         0.0 °C         Off-Time Punge Fundion         0.0 °C           m Riow Temperature to activate Control - Trine Punge Fundion         75.0 °C         Off-Time Punge Fundion         2.0 min           m Riow Limitation         1.0         Min Riow Temperature to activate Operative         0.0 5°C         0.0 °C	executal pressure control - Tn Pump 2         10.0 s         Min Row Temperature to advanted Bippass         85.0 °C           in Temperature Stepond Day Mode         80.0 °C         OVE Time Purge Function         1.0 min           memory Tables Mode         75.0 °C         OVE Time Purge Function         1.0 min           Min Row Temperature to advanted Druge         60.0 °C         Time Fore Time Purge Function         2.0 min           Refuen Row Temperature Max Value         80.0 °C         Time to open Flap FEX-642         2.0 0.3 °C           in Charge of the Net Restrangers         164.0 n         Time to advanted 0.1 advante         1.0 min           vicignant tor advante On 2.4 EX         9.0 3 °N         Time back to advante         1.0 min	seedal pressure content - Tri Pump 2         10.0 B         Min Flow Temperature to activate Bigass         65.0 °C           in Emperature Steport Duy Mode         80.0 °C         OFE Time Purg 4 indice         10.0 min           Ream Flautin Flow Tempe         75.0 °C         OFF Time Purg 4 indice         10.0 min           Ream Flautin Flow Tempe         75.0 °C         OFF Time Purg 4 indice         2.0 min           Ream Flautin Flow Tempesature to activate Blogass         0.0 °C         Time Source Tipe (FIK-402)         2.0 min           at Charge of the Neal Exchangers         10.0 °C         Time Source Tipe (FIK-402)         2.0 0 min           at Charge of the Neal Exchangers         10.0 °C         Time Source Tipe (FIK-402)         1.0 min           at Charge of the Neal Exchangers         10.0 °C         Time Source Tipe (FIK-402)         1.0 min           at Charge of the Neal Exchangers         10.0 °C         Time Source Tipe (FIK-402)         1.0 min           at Delay for Switch consord water Hanger (200 min         200 min         1.0 min         1.0 min	ential pressure context - Tn Pump 2         10.8 s         Min Flow Temperature to activate Rippass         85.0 °C           Temperature Stepport Day Mode         00.9 °C         OH-Time Purge Function         1.0 min           mum Return Rev Tempe         75.0 °C         OH-Time Purge Function         2.0 min           Min Flow Limitation         1.0         Min Flow Temperature to activate A Purge         60.0 °C           Temperature Bax Value         00.0 °C         Time to open Flop FLX-452         240.0 s           Change of the heat exchangers         100.0 °C         Time back to audo         1.0 min           Quarta for author N0.2 FLX         65.0 °C         Time back to audo         1.0 min	oths pressure context - 10 Funds 2         110.9 T         Mon Pice Temperature to schedule dispass 2         80.9 TC           umperature Subject Day Mode         80.9 TC         OV Time Programmer to schedule dispass 3         9.9 TC           metham Programmer Temperature Taxation         7.9 TC         OP Time Programmer to schedule Organization         1.9 TC           tam Pice Limitation         1.5         Mon Pice Temperature to schedule Organization         6.0.9 TC           preperature Max Vision         0.0 TC         Time to schedule Organization         6.0.9 TC	exhibit pressure conduct T-FP Pump 2         150.5 to         Min From Emergenature to activated Bigauss         88.9 °C           Temperature Subjoint Day Mode         60.0 °C         OH From Emerge Fundson         1.0 min           Minn From Return From Funge Fundson         75.9 °C         OH From Emerge Fundson         2.0 min           Minn From Kumbalton         T.5         Min From Emerge Fundson         6.05 °C         2.0 min           Reservature Markatow         0.0 °C         Time to open Finge Fundson         6.05 °C         2.40 °S	Internative pressure control - Tn Pump 2         10.0 s         Min Row Temperature to activate Bigass         85.0 °C           We Temperature Steppind Day-bade         80.0 °C         OVE Time Purge Function         1.0 min           we may be than Pow Tempe         75.0 °C         OVE Time Purge Function         2.0 min           Return Rive Limitation         1.6         Min Row Tempe activate to activate Durge         80.0 °C	executal pressure contor - Tn Pump 2         10.0 s         Min Row Temperature to activate 0 ppass         85.0 °C           in Temperature StepenD 2x3Mode         80.0 °C         CVF Time Purge Function         1.0 min           memoritation         75.0 °C         CVF Time Purge Function         2.0 min           Return River Time         75.0 °C         OFF Time Purge Function         2.0 min           Return Rive Time Time to activate 0 Purge         60.0 °C         0.0 °C         0.0 °C	krentku pressure contol - Tri Pump 2         10.0 s         Min Flow Temperature to activated Bipass         85.0 °C           w Temperature Skipoint DayMode         80.0 °C         ON-Time Purge Fundion         1.0 min           wimum Return Prov Temp         75.8 °C         OFF-Time Purge Fundion         2.0 min				1.0
wit Temperature Setpond Day-Mode         80.0 °C         OH-Time Purge Function         1.0 mm           samum Return Flow Time,         75.0 °C         OFF-Time Purge Function         2.0 mm           Return Flow Limitation         1.0         Min Flow Temperature to advaled Purge         60.0 °C           With Prove Limitation         1.0         Min Flow Temperature to advaled Purge         60.0 °C           With Prove Limitation         1.0         Time to ope Flow Flow Flow Flow         60.0 °C           ad Change Other Mark exchanges         160.0 °C         Time to ope Flow Flow Flow         1.0 mm           ad Change Other Mark exchanges         160.0 °C         Time back to auto         1.0 mm           bit Video Mark to ave Other Mark exchanges         0.0 °C         Time back to auto         1.0 mm	Flow Temperature Setpoint Day Mode         80 8 °C         Off-Time Purge Function         1.3 min           Maximum Return Drive Tempe         75 8 °C         OFF-Time Purge Function         2.3 min           KR Return Tow Limitation         10         Min Flow Tempe and the Sachalde Purge         00.8 °C           Flow Tempe Limitation         10         Min Flow Tempe and the Sachalde Purge         00.8 °C         7.2 min           Flow Temperature Max Value         00.8 °C         Time to open trage H2X-kV62         2.42 for	Haw Temperature Setpoint Day-Mode         80.9 °C         ON-Time Purge Function         1.0           Assemum Return Flow Temp.         75.0 °C         OFF-Time Purge Function         2.0	nperature Selpoint Day-Mode         80.0 °C         ON-Time Purge Function         1.0 min           n Return Flow Temp         75.0 °C         OFF-Time Purge Function         2.0 min           m Flow Limitation         1.0         Min Flow Temperature to activated Purge         00.0 °C	w Temperature Setpoint Day Mode         80.0 °C         OK-Time Purge Function         1.0 mm           memm Return Time Temp         75.5 °C         OFF.Time Purge Function         1.0 mm           Return Time Time         1.0         Mm Time Time to activited Time to activite Time to actitactite Time to activite Time to activite Time to activ	Interpretative Steport Day-Mode         80.0 °C         ON-Time Purge Function         1.0 mm           memm Return Tow Temp         75.6 °C         OFF-Time Purge Function         2.0 mm           Return Tow Temp         75.6 °C         OFF-Time Purge Function         2.0 mm           Return Tow Temp         10         Mm Flow Temperature to activated Purge         60.0 °C           Return Tow Limits         1.0         Mm Flow Temperature to activated Purge         60.0 °C           d Charbage of the Net exchange for the State Inchanges         150.0 mm         1.0 mm           V/-dignal for seatch ON 2 HEX         69.5 %         1.0 mm           Delay for state in accord heat exchanger [20.0 mm         20.0 mm         1.0 mm	Temperature Setport Day Mode         80.9 °C         OH: Time Purge Function         1.9 mm           mum Return Flow Time.         75.9 °C         OF: Time Purge Function         2.9 mm           mum Return Flow Time.         1.0         Min. Flow Time.         2.0 min.           mum Return Flow Time.         1.0         Min. Flow Time.         2.0 min.           Temperature Stavit-Blow         0.0 °C         Time to open Flap HCX+02         2.40 s           Change of the heat exchangers         160.0 °C         Time to acto auto         1.9 min.           Qingal for section OX FRCK         60.5 °C         Time to acto auto         1.9 min.	Imperature Setpoint Day Mode         60 0 °C         Off-Time Runge Function         1 0 mm           Im Return from Temp         75 0 °C         OFF-Time Runge Rundsin         2 0 mm           In Plave Limition         10         MM River Remember Australied Purge         60 0 °C           emperature Max Value         60 0 °C         Time to open Flags HEK-Ad2         240 0 s	Temperature Setport Day Mode         80.0 °C         Ot-Time Purge Function         1.0 mm           num Return Pow Tenge.         75.0 °C         OFF.Time Purge Function         2.0 min           num Return Flow Limitation         1.0         Min Flow Tenge         60.0 °C           Temperature Back Value         00.0 °C         Time to open Flap HEX+A2         240.0 s	we Temperature Setpoint Day-Mode         80.9 °C         OVE-Time Purge Fundion         1.9 min           wimum Return Flow Temp.         75.8 °C         OFF-Time Purge Fundion         2.9 min           Return Flow Limitation         1.0         Min Flow Temperature to activated Purge.         60.8 °C	w Temperature Skipont Day-Mode         80.0 °C         OVE-Time Purge Function         1.0 min           emum Return Flow Temp         75.8 °C         OFF-Time Purge Function         2.0 min           Return Flow Limitation         1.0         Min Flow Temperature to activated Purge         60.0 °C	w Temperature Selpoint Day-Mode 80.0 °C ON-Time Purge Function 1.0 min simum Return Flow Temp. 75.0 °C OFF-Time Purge Function 2.0 min		rential pressure control - KP Pump 1 0.4 Heat Exchanger A01 - TN 180 0	Interential pressure control - KP Pump 2 0 4 Heat Exchanger A02 - TN	180.0 s
semum Return From Exerc.         75.0 °C         OFF-Time Parge Function         2.0 mm           Return Flow Limitation         1.0         Min Flow Temperature to activated Purge         60.5 °C           Weithersenarce Nak Value         0.00 °C         Time to ope Flow Flow FLOW         2.40 0 s           ad Change of the Inval exchanges         1.60 n         Time to ope Flow Flow FLOW         2.40 0 s           ad Change of the Inval exchanges         1.0 nm         Time to act to auto         1.0 nm           bit Solid Statut         0.60 0 %         Time to act to auto         1.0 nm           Deliver for withth or acond base dehaules         2.0 nm         1.0 nm	Maximum Return Flow Temp         75.0 °C         OFF-Time Purgs Function         2.0 min           KP Return Flow Limitation         1.0         Min Flow Temperature to activated Purgs         60.0 °C           Flow Temperature Max Value         60.0 °C         Time to open Flap HEV+-02         2.40 °s	Aaximum Return Flow Temp. 75.0 °C OFF-Time Purge Function 2.0	n Return Flow Temp. 75.0 °C OFF-Time Purge Function 2.0 mir m Flow Limitation 1.0 Min Flow Temperature to activated Purge 00.0 °C	mmm Return From Turne         776.5 °C         OPF-Time Purge Function         2.0 mm           Return Flow Limitation         1.0         Min Flow Temperature to activated Purge         0.05 °C           Return Flow Limitation         0.0 °C         min Flow Temperature to activated Purge         0.05 °C           Ad Change of the field exchangers         100 °C         Time to open Flow Flow Flow 42         2.40 °S           Ad Change of the field exchangers         100 °C         Time back to auto         1.0 min	mmm Return Flow Teng.         75.0 °C         OFF-Time Purge Function         2.0 mm           Return Flow Limitation         1.0         Min Flow Temperature to activated Purge         6.05 °C           Return Flow Limitation         0.0 °C         Time to open Flow Flow Fick-Ho2         2.40 °S           d Charlop of the heat exchangers         1.95 °C         Time to open Flow Fick-Ho2         2.40 °S           d Charlop of the heat exchangers         1.95 °C         Time to open Flow Fick-Ho2         2.40 °S           V Signal for switch ON 2 HEX         0.50 °G         Time to open Flow Flow Fick-Ho2         2.40 °S           Delay for switch consol Heat entanger (2.00 °G)         Time to open Flow Flow Fick-Ho2         2.40 °S         1.9 °mm	nun Richard New Yang 77.6 °C 07F. Time Purge Function 2 0 mm etum Riow Limitation 1.0 Min Riow Temperature Ital activated Purge Richard New Limitation 0.0 °C Time to open Trajing FLK-Ho22 240.0 13 Change of the heat extranspes 100.0 °C Time to activated Purge FLK-Ho22 10.0 10 min Right presention 0.0 FLK 05.0 %	um Reham Flow Temp.         75.0 °C         OFF-Time Purge Function         2.0 min.           tum Flow Limitation         1.0         Min Flow Temperature to activated Purge.         00.0 °C           emperature Max Value         80.0 °C         Time to open Flap HEX-H02         240.0 s	Num Return Flow Temp.         75.0 °C         OFF-Time Purge Function         2.0 min           etun Flow Limitation         1.0         Min Flow Temperature to activated Purge         00.0 °C           Temperature Max Value         60.8 °C         Time to open Flag HEX-H02         240 s s	xemum Return Flow Temp. 75.0 °C OFF-Time Purge Function 2.0 min Return Flow Limitation 1.0 Min Flow Temperature to activated Purge 00.0 °C	emum Return Flow Temp. 75.0 °C OFF-Time Purge Function 20 min Return Flow Limitation 1.0 Min Flow Temperature to activated Purge 00.0 °C	ximum Return Flow Temp. 75.0 °C OFF-Time Purge Function 2.0 min		rentfall pressure control - KP Pump 1         0.4         Heat Exchanger A01 - TN         180 0           rentfall pressure control - Tn Pump 1         10 0 s         Heat Exchanger A02 - KP         1.0	Interential pressure control - Tn Pump 2 10.0 s Min Flow Temperature to activated Bypass	85.0 °C
Refum Flow Limitation         10         Min Flow Temperature to activated Purge         60.0 °C           The Temperature Nan Value         60.0 °C         Time to open Flue FEL+52         240.0 °s           a Charge of the first existence of the sector and the sect	KP Return Flow Limitation         1.0         Min Flow Temperature to activated Purge         0.0.0 °C           Flow Temperature Max Value         00.0 °C         Time to open Flap HEX+02         240.0 s		m Row Limitation 1.0 Min Flow Temperature to activated Purge 80.0 °C	Return Row Limitation         1.0         Min Row Temperature to activated Purge         60.0 °C           In Temperature Max Value         60.0 °C         Time to open Flap HEL+-5/2         240.0 s           40 Change of the held exchangers         166.0 n         Time to activated         1.0 min           Vergenut for service ON 2.4 HEX         9.0 3 %         1.0 min         1.0 min	Relain Flive Limitation         1.0         Min Flive Temperature to activated Purgle         60.5 °C           In Engineerature Max Value         0.0 °C         Time to open Flive FLi-A2         2.40 °s           Ochraged tittle hard extrainingers         7.60 µL         7.60 °L         2.40 °s           Vidiograd tits extend No.2 × EX         0.0 °S         1.3 °min           Vidiograd tits extend No.2 × EX         0.0 °S         1.3 °min	etum Flow Limitation         1.0         Min Flow Temperature to activated Purge         00.0 °C           Temperature Max Value         00.0 °C         Time to open Flips HCx4-02         240.0 s           Change of the heat exchangers         100.0 °C         Time boards to auto         1.0 min           Organal for eartier ON 02 HEX         05.0 %         Time boards to auto         1.0 min	tum Flow Limitation 1.0 Min Flow Temperature to activated Purge 00.0 °C emperature Max Value 00.0 °C Time to open Flap HEX+02 240.0 s	etum Flow Limitation 1.0 Min Flow Temperature to activated Purge 80.0 °C Time to open Flap HEX+02 240.0 s	Return Flow Limitation 1.0 Min Flow Temperature to activated Purge 00.0 °C	Return Flow Limitation 1.0 Min Flow Temperature to activated Purge 00.0 °C		ferential pressure control - KP Pump 2 0.4 Heat Exchanger A02 - TN 180	rentball pressure control - KP Pump 1         0.4         Heat Exchanger A01 - TN         100 c           rentball pressure control - KP Pump 1         100 s         Heat Exchanger A02 - KP         100 r           rentball pressure control - KP Pump 2         0.4         Heat Exchanger A02 - TN         180 c	low Temperature Setpoint Day-Mode 80.9 °C ON-Time Purge Function	1.0 min
will Temperature Max/Value 800.1°C Time to spen Flup HEX-4-02 240.0 s ad Change Othe Inval eschangers 1060.0 Time back to auto 10.0 min tri-Gignal for search OK 2 HEX 95.0 % The blank for search of the Advanced Calo minimum of the Calo minimum of	Flow Temperature Max Value 80.0 °C Time to open Flap HEX-A-02 240.0 s	P Return Flow Limitation 10 Min Flow Temperature to activated Purge 80.		W Temperature Max Value         80.0 °C         Time to open Flap HEX-+02         240.0 s           Jad Change of the heat exchangers         168.0 h         Time back to auto         1.0 min           VFGignal for switch ON 2 HEX         95.0 %         10         1.0 min	a Temperature Max Value         80.0 °C         Time to open Fup HEX-Md2         240.0 s           d Chanage of the heat exchangers         150.0 n         Time back to auto         1.0 mm           V/dignal for sextor. ON 2 HEX         95.0 %         E0.0 mm         E0.0 mm	Temperature Max Value         B0.0 °C         Time to open Flap HEX-+02         240 o s           Change of the heat exchangers         166 0 h         Time back to auto         1.0 min           -digma for switch ON 2 HEX         95 9 %         10         10         10	emperature Max Value 80.0 °C Time to open Flap HEX-A-02 240.0 s	Temperature Max Value 80.0 °C Time to open Flap HEX-A-02 240.0 s			Return Flow Limitation 1.0 Min Flow Temperature to activated Purge 00.0 °C	terential pressure control - KP Pump 2 0.4 Heat Exchanger A02 - TN 180 terential pressure control - Tn Pump 2 10.0 s Min Flow Temperature to activated Bypass 85.0	vental pressure control - KP Pump 1         0.4         Heat Exchanger A01 - TH         100.0           vental pressure control - TP Pump 1         0.0.9         Heat Exchanger A02 - KP         100.0           vental pressure control - TP Pump 2         0.4         Heat Exchanger A02 - TN         100.0           vental pressure control - TP Pump 2         0.4         Heat Exchanger A02 - TN         100.0           vental pressure control - TP Pump 2         10.0 m         Heat Exchanger A02 - TN         100.0	taximum Return Flow Temp. 75.0 °C OFF-Time Purge Function	2.0 min
ad Change of the Heat exchangers 168.0 h. Time back to auto 1.0 min. In Y-Gignal for a witch ON 2 HEX 95.0 %. The Delay for switch on second heat enhanger 20.0 min.			nperature Max Value 80.0 °C Time to open Flap HEX-A-02 240.0 s	ad Change of the heat exchangers 166.0 h Time back to auto 1.0 min x Y-Signal for switch ON 2 HEX 95.0 %	al Change of the heat exchangers 168.0 h Time back to auto 1.0 min Y-Gignal for switch On 2 HEX 95.0 % e Delay for switch on second heat enhanger 20.0 min	Change of the heat exchangers 168.0 h Time back to auto 1.0 min Folgnal for switch ON 2 HEX 95.0 %			w Temperature Max Value 80.0 °C Time to open Flap HEX-A-02 240.0 s	The second se		Beendual pressure control - KP Pump 2         0.4         Heat Exchanger A/2 - 7N         190           Beendual pressure control - Tn Pump 2         10.0 s         Min Flow Temperature to activated Bypass         85.0           we Temperature Selpoint Day Mode         80.9 °C         OV-Time Purge Function         1.0 n	entral pressure control - KP Pump 1         0.4         Heat Exchanger 4/0 - TN         100.0           entral pressure control - RP Pump 1         100.0         Heat Exchanger 4/0 - KP         100.0           entral pressure control - RP Pump 2         0.4         Heat Exchanger 4/0 - KP         100.0           entral pressure control - RP Pump 2         0.4         Heat Exchanger 4/0 - KP         100.0           entral pressure control - RP Pump 2         0.0         Bitn Proc Emperature Strebul Control - KP         100.0           entral pressure control - RP Pump 2         0.0         D0.0         CO TO	P Return Flow Limitation 1.0 Min Flow Temperature to activated Purge	90.0 °C
at Y-Signal for switch ON 2 HEX 95.0 % me Delay for switch on second heat exhanger 20.0 min	Lead Change of the heat exchangers 168.9 h Time back to auto	Now Temperature Max Value 80.0 °C Time to open Flap HEX-A-02 240		r Y-Signal for switch ON 2 HEX 95.0 %	(Y-Gignal for switch ON 2 HEX 95.0 % le Delay for switch on second heat exhanger 20.0 min	-Signal for switch ON 2 HEX 95.0 %	Change of the heat exchangers 168.0 h Time back to auto 1.0 min	Change of the heat exchangers 158.0 b Time back to suite		A Temperature Max Value 80.0 °C Time to open Flap HEX-A-02 240.0 s	w Temperature Max Value 80.0 °C Time to open Flap HEX-A-02 240.0 s	Reentlad pressure control - KP Pump 2         2.4         Heat Exchanger A02 - 71%         1600           Reentlad pressure context - Th Num 2         10.9.8         Min Flow Temperature to activate Bippass         6.5.0           Was Temperature Stoppen Day-Mode         80.9.10°         OFT-Time Pump Environment         10.9.2         10.9.2           was Temperature Stoppen Day-Mode         80.9.10°         OFT-Time Pump Environment         10.2.2         10.2.2	ventbal pressure control: -KP Pump 1         0.4         Heat Exchanger AD1 - TN         10.0           methal pressure control: -TR-Pump 1         0.0 S         Heat Exchanger AD1 - TN         10.0           methal pressure control: -TR-Pump 2         0.4         Heat Exchanger AD2 - TN         100.0           methal pressure control: -TR-Pump 2         0.4         Heat Exchanger AD2 - TN         100.0           methal pressure control: -TR-Pump 2         10.0 a         MR-Prox Trenperature 5 advales Bigsas         65.0           7emperature Stepont Day Mode         0.0 a °C         OH - Time Pump Function         1.0         1.0           mental memory         75.0°         OFF-Time Pump Function         2.0         2.0	Iow Temperature Max Value 80.0 °C Time to open Flap HEX-A-02	240.0 s
me Delay for switch on second heat exhanger 20.0 min		ead Change of the heat exchangers 168.0 h Time back to auto 1.0	ange of the heat exchangers 168.0 h Time back to auto 1.0 min		e Delay for switch on second heat exhanger 20.0 min				ad Change of the heat exchangers 168.0 h Time back to auto 1.0 min			Member Seaser Control - VP mmp 2         0.4         Hat Exchange AG - Tri         100           Mendbal pressure control - To Pump 2         10.8         Men Flow Temperature to activate 80 gass         55.0           Member Seaser Control - To Pump 2         10.8         70.0         To 70.0         100           Member Seaser Control - To Pump 2         10.8         70.0         To 70.0         100           Member Seaser Control - To Pump 2         70.7         The Pump Fundation         10.7         100           Reader Thio Linders         10.5         Men Flow Temperature to activate 80 gass         60.0         20.0	vental pressure contor - KP Pump 1         0.4         Heat Exchanger AD1 - TN         100 c           vental pressure contor - TP Pump 1         0.0 s         Heat Exchanger AD1 - KP         100 c           vental pressure contor - TP Pump 2         0.4         Heat Exchanger AD2 - KP         100 c           vental pressure contor - TP Pump 2         0.4         Heat Exchanger AD2 - TN         100 c           vental pressure contor - TP Pump 2         10.9 a         Min Flow Temperature to activited Bypass         85.0 c           Temperature Steport Day Mode         0.9 0° C         OF Time Pump Function         1.0 m           nem Return Rev Tempe Temp 4         7.9 0° C         OF Time Pump Function         2.0 m           etalm Edvo         1.0 Min Flow Temperature to activited Puppe         60.5 0°         0.0 0° C	ead Change of the heat exchangers 168.0 h Time back to auto	1.0 min
	Max Y-Signal for switch ON 2 HEX 95.0 %	Aax Y-Signal for switch ON 2 HEX 95.0 %				Delay for switch on second heat exhanger 20.0 min	Signal for switch ON 2 HEX 95.0 %	Signal for switch ON 2 HEX 95.0 %		d change of the neat exchangers 168.0 h. Time back to auto 1.0 min	ad Change of the heat exchangers 168.0 h Time back to auto 1.0 min	Brendba pressure control - KP Pump 2         0.4         Heat Exchange A02 - TN         100           Brendba pressure control - KP Pump 2         0.4         Man Flow Innerestature to activate Bigsas         65.0           Brendba pressure control - KP Pump 2         0.0 °C         Children Pump Environment         10.0 °C         10.0 °C           Brendba Pump 2         0.0 °C         Children Pump Environment         0.0 °C         2.0 °C           Brendba Pump 2         76.0 °C         CHF. Thm Pump Environment         2.0 °C         2.0 °C           Brendba Pump 2         0.0 °C         Min Flow Temperature to activate Bigsas         6.0 °C         2.0 °C           Brendba Pump 2         0.0 °C         Min Flow Temperature to activate Bigsas         2.0 °C         2.0 °C	exempt pressure control - KP Pump 1         0.4         Heat Exchanger 4/0 - TN         100.0           entral pressure control - Tn Pump 1         100.0         Heat Exchanger 4/0 - TN         100.0           entral pressure control - Tn Pump 2         0.4         Heat Exchanger 4/0 - TN         100.0           entral pressure control - Tn Pump 2         0.0         Mn Pine Temperature Backweiter Back	tax Y-Signal for switch ON 2 HEX 95.0 %	
ne to open Flap HEX-A-01 2400 s	Time Delay for switch on second heat exhanger 20.0 min		gnal for switch ON 2 HEX 95.0 %	te Delay for switch on second heat exhanger 20.0 min			Pelay for switch on second heat exhanger 20.0 min		x Y-Signal for switch ON 2 HEX 95.0 %			Resentad pressure control - KP Pump 2         2.4         Heat Exchanger A02 - 71%         1600           Resentad pressure context - TR Fump 2         10.9 a         MA Flow Interpretative Statistical Biol         55.0 b           Windmerstark Statistical Biol 70°         0.0 Time Party Encortance         85.0 b         55.0 b         55.0 b           Windmerstark Statistical Biol 70°         0.7 Time Party Encortance         2.2 a         2.4 b         2.2 a           Windmerstark Statistical Biol 70°         0.7 Time Party Encortance         2.2 a         2.4 b         2.4 b           Refamilier New Text         1.0 B         MA Flow Timesenable to ackinder Depart         0.0 b         0.0 b <td>central pressure control - KP Pump 1         0.4         Heat Exchanger AD1 - TN         100 c           method pressure control - TR-Pump 1         0.9 c         Heat Exchanger AD1 - TN         100 c           method pressure control - TR-Pump 2         0.4         Heat Exchanger AD2 - TN         100 c           method pressure control - TR-Pump 2         0.4         Heat Exchanger AD2 - TN         100 c           method pressure control - TR-Pump 2         10.9 a         Hen Prox Integrature to advalue Expanse         ESG           Temperature Steptont Day Mode         80.0 °C         OH - Time Purge Function         1.0 m           method pressure control - TR-Pump 2         10.9 a         Hen Prox Integrature to advalue Expanse         ESG           advant Pump 1         0.5 °C         OH - Time Purge Function         1.0 m         1.0 m           advant Pump 1         0.0 °C         Time Route Pump Expansion         0.0 0         0.0 0           Temperature Mark Value         0.0 0 °C         Time for the spen Facility EX-4/02         2.000 C</td> <td></td> <td></td>	central pressure control - KP Pump 1         0.4         Heat Exchanger AD1 - TN         100 c           method pressure control - TR-Pump 1         0.9 c         Heat Exchanger AD1 - TN         100 c           method pressure control - TR-Pump 2         0.4         Heat Exchanger AD2 - TN         100 c           method pressure control - TR-Pump 2         0.4         Heat Exchanger AD2 - TN         100 c           method pressure control - TR-Pump 2         10.9 a         Hen Prox Integrature to advalue Expanse         ESG           Temperature Steptont Day Mode         80.0 °C         OH - Time Purge Function         1.0 m           method pressure control - TR-Pump 2         10.9 a         Hen Prox Integrature to advalue Expanse         ESG           advant Pump 1         0.5 °C         OH - Time Purge Function         1.0 m         1.0 m           advant Pump 1         0.0 °C         Time Route Pump Expansion         0.0 0         0.0 0           Temperature Mark Value         0.0 0 °C         Time for the spen Facility EX-4/02         2.000 C		
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			E and a second					-cegnal for switch UN 2 HEA 95.0 %				Resentad pressure control - KP Pump 2         2.4         Heat Exchanger A02 - 71%         1600           Resentad pressure context - TR Fump 2         10.9 a         MA Flow Interpretative Statistical Biol         55.0 b           Windmerstark Statistical Biol 70°         0.0 Time Party Encortance         85.0 b         55.0 b         55.0 b           Windmerstark Statistical Biol 70°         0.7 Time Party Encortance         2.2 a         2.4 b         2.2 a           Windmerstark Statistical Biol 70°         0.7 Time Party Encortance         2.2 a         2.4 b         2.4 b           Refamilier New Text         1.0 B         MA Flow Timesenable to ackinder Depart         0.0 b         0.0 b <td>central pressure control - KP Pump 1         0.4         Heat Exchanger AD1 - TN         100 c           method pressure control - TR-Pump 1         0.9 c         Heat Exchanger AD1 - TN         100 c           method pressure control - TR-Pump 2         0.4         Heat Exchanger AD2 - TN         100 c           method pressure control - TR-Pump 2         0.4         Heat Exchanger AD2 - TN         100 c           method pressure control - TR-Pump 2         10.9 a         Hen Prox Integrature to advalue Expanse         ESG           Temperature Steptont Day Mode         80.0 °C         OH - Time Purge Function         1.0 m           method pressure control - TR-Pump 2         10.9 a         Hen Prox Integrature to advalue Expanse         ESG           advant Pump 1         0.5 °C         OH - Time Purge Function         1.0 m         1.0 m           advant Pump 1         0.0 °C         Time Route Pump Expansion         0.0 0         0.0 0           Temperature Mark Value         0.0 0 °C         Time for the spen Facility EX-4/02         2.000 C</td> <td></td> <td></td>	central pressure control - KP Pump 1         0.4         Heat Exchanger AD1 - TN         100 c           method pressure control - TR-Pump 1         0.9 c         Heat Exchanger AD1 - TN         100 c           method pressure control - TR-Pump 2         0.4         Heat Exchanger AD2 - TN         100 c           method pressure control - TR-Pump 2         0.4         Heat Exchanger AD2 - TN         100 c           method pressure control - TR-Pump 2         10.9 a         Hen Prox Integrature to advalue Expanse         ESG           Temperature Steptont Day Mode         80.0 °C         OH - Time Purge Function         1.0 m           method pressure control - TR-Pump 2         10.9 a         Hen Prox Integrature to advalue Expanse         ESG           advant Pump 1         0.5 °C         OH - Time Purge Function         1.0 m         1.0 m           advant Pump 1         0.0 °C         Time Route Pump Expansion         0.0 0         0.0 0           Temperature Mark Value         0.0 0 °C         Time for the spen Facility EX-4/02         2.000 C		
me to open Flap HEX-A-01 240.0 s										(Y-Signal for switch ON 2 HEX 95.0 %	x Y-Signal for switch ON 2 HEX 05.0 %	Brendla pressure control - KP Pump 2         0.4         Heat Exchange A02 - 11/         100           Brendla pressure control - Tin Fung 2         100 a         Min Flow Interpretative to activate this pass.         650           Brendla pressure control - Tin Fung 2         0.6         Min Flow Interpretative to activate this pass.         650           Brendla Pise Lindon         0.6         OFF. Time Purge Fundion         1.0           Brendla Pise Lindon         1.0         Min Flow Interpretative to activate this pass.         2.00           Brendla Pise Lindon         1.0         Min Flow Interpretative to activate this pass.         2.00           Brendla Pise Lindon         1.0         Min Flow Interpretative to activate this pass.         2.00           Brendla Pise Lindon         1.0         Min Flow Interpretative to activate this pass.         2.00           Brendla Pise Lindon         1.0         1.0         Min Flow Interpretative to activate this pass.         2.00           Brendla Pise Lindon Or Lindon         0.0 %         1.0         Time to open Flap HEX-422         2.40           Brendla Pise Lindon Or Lindon         1.0         1.0         Time to open Flap HEX-422         2.40	send pressure control - KP Pump 1         0.4         Heat Exchanger AD1 - TN         100.0           entral pressure control - KP Pump 2         0.0         Heat Exchanger AD2 - KP         100.0           entral pressure control - KP Pump 2         0.0         Heat Exchanger AD2 - KP         100.0           entral pressure control - TP Pump 2         0.0         Heat Exchanger AD2 - KP         100.0           mmm Realty Pow Year         0.00 °C         OVF. Time Purp Function         100.0           mmm Realty Flow Year         75.0 °C         OVF. Time Purp Function         100.0           Temperature Stroker to advised Pump 2         0.00 °C         OVF. Time Purp Function         100.0           Temperature Stroker to advised Pump 2         0.00 °C         OVF. Time Purp Function         100.0           Temperature Stroker to advised Pump 2         0.00 °C         OVF. Time Purp Function         100.0           Control to the Net Stroker to advised Pump 2         0.00 °C         Time to open Firate Pump 2         0.00 °C           Control to the Net Stroker to advised Pump 2         0.00 °C         Time to open Firate Pump 2         0.00 °C           Control to the Net Stroker to advised Pump 2         0.00 °C         Time to open Firate Pump 2         0.00 °C           Change of the Net Stroker to advised Pump 2         0.00 °C         Time t		
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win Temperature Max Value 60.0 °C Time to open Flup HEX-402 240.0 s dd Change of the Institutionary 166.0 n. Time to open Flup HEX-402 10 min in K-Oppinal for switch OK 2 HEX 650.0 n. De Delar for switch on 22 HEX 650.0 n.	low Temperature Max Value 80.0 °C Time to open Flap HEX-4-02 240.0 s			w Temperature Max Value 60.0 °C Time to open Flag HEX-A-02 240.0 s ad Chalog of the neal exchangers 160.0 m Vidgalard is welfor 0.2 4EX 55 %	Interpretative Max Value         800.°C         Time to open Flap HEX-Ad2         240.0 s           4 Change of the Net exchangers         150.0 h         Time back to auto         1.0 min           V-dignal for switch ON 2 HEX         95.0 h         E0.0 h         1.0 min           Delay for the stance of heat ethanger         20.0 min         E0.0 min	Temperature Max Value         80.0 °C         Time to open Flag HEX-+62         246.0 s           Change of the heat exchangers         166.0 h         Time back to auto         1.0 min           Glignal for switch ON 2 HEX         95.9 %         10         10         10	emperature Max Value 80.0 °C Time to open Flap HEX-4-02 240.0 s	Temperature Max Value 80.0 °C Time to open Flap HEX-4-02 240.0 s				Beendual pressure control - KP Pump 2         0.4         Heat Exchanger A/2 - 7N         190           Beendual pressure control - Tn Pump 2         10.0 s         Min Flow Temperature to activated Bypass         85.0           we Temperature Selpoint Day Mode         80.9 °C         OV-Time Purge Function         1.0 n	entral pressure control - KP Pump 1         0.4         Heat Exchanger 4/0 - TN         100.0           entral pressure control - RP Pump 1         100.0         Heat Exchanger 4/0 - KP         100.0           entral pressure control - RP Pump 2         0.4         Heat Exchanger 4/0 - KP         100.0           entral pressure control - RP Pump 2         0.4         Heat Exchanger 4/0 - KP         100.0           entral pressure control - RP Pump 2         0.0         Bitn Proc Emperature Strebul Control - KP         100.0           entral pressure control - RP Pump 2         0.0         D0.0         CO TO		80.0 °C
will Temperature Max/Value 800.1°C Time to spen Flup HEX-4-02 240.0 s ad Change Othe Inval eschangers 1060.0 Time back to auto 10.0 min to K-dignard for exercise CAR 2 HEX 95.0 min the Delar for settler concordenate ethanger (20.0 min	Iow Temperature Max Value 80.0 °C Time to open Flap HEX-A-02 240.0 s	P Return Flow Limitation 1.0 Min Flow Temperature to activated Purge. 80.0		W Temperature Max Value         80.0 °C         Time to open Flap HEX-+02         240.0 s           Jad Change of the heat exchangers         168.0 h         Time back to auto         1.0 min           VFGignal for switch ON 2 HEX         95.0 %         10         1.0 min	a Temperature Max Value         80.0 °C         Time to open Fup HEX-Md2         240.0 s           d Chanage of the heat exchangers         150.0 n         Time back to auto         1.0 mm           V/dignal for sextor. ON 2 HEX         95.0 %         E0.0 mm         E0.0 mm	Temperature Max Value         B0.0 °C         Time to open Flap HEX-+02         240 o s           Change of the heat exchangers         166 0 h         Time back to auto         1.0 min           -digma for switch ON 2 HEX         95 9 %         10         10         10	emperature Max Value 80.0 °C Time to open Flap HEX-A-02 240.0 s	Temperature Max Value 80.0 °C Time to open Flap HEX-A-02 240.0 s			Return Flow Limitation 1.0 Min Flow Temperature to activated Purge 80.0 °C	Beendual pressure control - KP Pump 2         0.4         Heat Exchanger A/2 - 7N         190           Beendual pressure control - Tn Pump 2         10.0 s         Min Flow Temperature to activated Bypass         85.0           we Temperature Selpoint Day Mode         80.9 °C         OV-Time Purge Function         1.0 n	entral pressure control - KP Pump 1         0.4         Heat Exchanger 4/0 - TN         100.0           entral pressure control - RP Pump 1         100.0         Heat Exchanger 4/0 - KP         100.0           entral pressure control - RP Pump 2         0.4         Heat Exchanger 4/0 - KP         100.0           entral pressure control - RP Pump 2         0.4         Heat Exchanger 4/0 - KP         100.0           entral pressure control - RP Pump 2         0.0         Bitn Proc Emperature Strebul Control - KP         100.0           entral pressure control - RP Pump 2         0.0         D0.0         CO TO		
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Refum Flow Limitation         10         Min Flow Temperature to activated Purge         60.0 °C           The Temperature Nan Value         60.0 °C         Time to open Flue FEL+52         240.0 °s           a Charge of the first existence of the sector and the sect	P Return Flow Limitation 1.0 Min Flow Temperature to activated Purpe 80.0 °C ow Temperature Max Value 80.0 °C Time to open Flap HEX-4-02 240.0 s		m Row Limitation 1.0 Min Flow Temperature to activated Purge 80.0 °C	Return Row Limitation         1.0         Min Row Temperature to activated Purge         60.0 °C           In Temperature Max Value         60.0 °C         Time to open Flap HEL+-5/2         240.0 s           40 Change of the held exchangers         166.0 n         Time to activated         1.0 min           Vergenut for service ON 2.4 HEX         9.0 3 %         1.0 min         1.0 min	Return Flow Limitation         1.2         Min Flow Temperature to actualed Purple         60.5 °C           1 Temperature Max Value         0.0 °C         Time to open Flue FCI-452         2.40 °D s           4 Canaged tithe hard exchangers         7.60 Jh         Time to open Flue FCI-452         2.40 °D s           Vidigmal to sends Tell and FCI         0.0 °C s         Time to open Flue FCI-452         2.40 °D s           Vidigmal to sends Tell and FCI         0.0 °C s         Time to accts auto         Time to open Flue FCI-452	etum Flow Limitation         1.0         Min Flow Temperature to activated Purge         60.0 °C           Temperature Max Value         60.0 °C         Time to open Flips HCx4-02         240.0 s           Change of the heat exchangers         160.0 n         Time back to auto         1.0 min           Organal for earthir OX 2 HEX         65.0 %         100.0 %         1.0 min	tum Flow Limitation 1.0 Min Flow Temperature to activated Purge 00.0 °C emperature Max Value 00.0 °C Time to open Flap HEX+02 240.0 s	etum Flow Limitation 1.0 Min Flow Temperature to activated Purge 80.0 °C Time to open Flap HEX+02 240.0 s	Return Flow Limitation 1.0 Min Flow Temperature to activated Purge 80.0 °C	Return Flow Limitation 1.0 Min Flow Temperature to activated Purge 00.0 °C		terential pressure control - KP Pump 2 0.4 Heat Exchanger A02 - TN 180 terential pressure control - Tn Pump 2 10.0 s Min Flow Temperature to activated Bypass 85.0	vental pressure control - KP Pump 1         0.4         Heat Exchanger A01 - TH         100.0           vental pressure control - TP Pump 1         0.0.9         Heat Exchanger A02 - KP         100.0           vental pressure control - TP Pump 2         0.4         Heat Exchanger A02 - TN         100.0           vental pressure control - TP Pump 2         0.4         Heat Exchanger A02 - TN         100.0           vental pressure control - TP Pump 2         10.0 m         Heat Exchanger A02 - TN         100.0		
Refum Flow Limitation         10         Min Flow Temperature to activated Purge         60.0 °C           The Temperature Nan Value         60.0 °C         Time to open Flue FEL+52         240.0 °s           a Charge of the first existence of the sector and the sect	P Return Flow Limitation 1.0 Min Flow Temperature to activated Purpe 80.0 °C low Temperature Max Value 80.0 °C Time to open Flap HEX-4-02 240.0 s		m Row Limitation 1.0 Min Flow Temperature to activated Purge 80.0 °C	Return Row Limitation         1.0         Min Row Temperature to activated Purge         60.0 °C           In Temperature Max Value         60.0 °C         Time to open Flap HEL+-5/2         240.0 s           40 Change of the held exchangers         166.0 n         Time to activated         1.0 min           Vergenut for service ON 2.4 HEX         9.0 3 %         1.0 min         1.0 min	Return Flow Limitation         1.2         Min Flow Temperature to actualed Purple         60.5 °C           1 Temperature Max Value         0.0 °C         Time to open Flue FCI-452         2.40 °D s           4 Canaged tithe hard exchangers         7.60 Jh         Time to open Flue FCI-452         2.40 °D s           Vidigmal to sends Tell and FCI         0.0 °C s         Time to open Flue FCI-452         2.40 °D s           Vidigmal to sends Tell and FCI         0.0 °C s         Time to accts auto         Time to open Flue FCI-452	etum Flow Limitation         1.0         Min Flow Temperature to activated Purge         60.0 °C           Temperature Max Value         60.0 °C         Time to open Flips HCx4-02         240.0 s           Change of the heat exchangers         160.0 n         Time back to auto         1.0 min           Organal for earthir OX 2 HEX         65.0 %         100.0 %         1.0 min	tum Flow Limitation 1.0 Min Flow Temperature to activated Purge 00.0 °C emperature Max Value 00.0 °C Time to open Flap HEX+02 240.0 s	etum Flow Limitation 1.0 Min Flow Temperature to activated Purge 80.0 °C Time to open Flap HEX+02 240.0 s	Return Flow Limitation 1.0 Min Flow Temperature to activated Purge 80.0 °C	Return Flow Limitation 1.0 Min Flow Temperature to activated Purge 00.0 °C		ferential pressure control - KP Pump 2 0.4 Heat Exchanger A02 - TN 180	rentball pressure control - KP Pump 1         0.4         Heat Exchanger A01 - TN         100 c           rentball pressure control - KP Pump 1         100 s         Heat Exchanger A02 - KP         100 r           rentball pressure control - KP Pump 2         0.4         Heat Exchanger A02 - TN         180 c	low Temperature Setpoint Day-Mode 80.0 °C ON-Time Purge Function	1.0 min
semum Return From Exerc.         75.0 °C         OFF-Time Parge Function         2.0 mm           Return Flow Limitation         1.0         Min Flow Temperature to activated Purge         60.5 °C           Weithersenarce Nak Value         0.00 °C         Time to ope Flow Flow FLOW         2.40 0 si           ad Change of the Inst exchanges         1.60 nn         Time to ope Flow Flow FLOW         2.40 0 si           ad Change of the Inst exchanges         1.0 nm         5.0 % in         1.0 mm           bit Flow Settion Coord Set & Balage         2.0 mm         1.0 mm	aximum Return Flow Temp.         75.0 °C         OFF-Time Purge Function         2.0 min           P Return Flow Limitation         1.0         Min Flow Temperature to activated Purge         60.0 °C           tow Temperature Max Value         80.0 °C         Time to open Flap FEX-4-02         2.440 0 s	aximum Return Flow Temp. 75.0 °C OFF-Time Purge Function 2.0	n Return Flow Temp. 75.0 °C OFF-Time Purge Function 2.0 mir m Flow Limitation 1.0 Min Flow Temperature to activated Purge 00.0 °C	mmm Return From Turne         776.5 °C         OPF-Time Purge Function         2.0 mm           Return Flow Limitation         1.0         Min Flow Temperature to activated Purge         0.05 °C           Return Flow Limitation         0.0 °C         min Flow Temperature to activated Purge         0.05 °C           Ad Change of the field exchangers         100 °C         Time to open Flow Flow Flow Activated Purge         2.04 D II           Ad Change of the field exchangers         100 °C         Time bace to auto         1.0 min	mmm Return Flow Teng         75.0 °C         OFF-Time Purgs Function         2.0 mm           Return Flow Limitation         1.0         Min Flow Tengenature to activated Purgs         6.03.7 °C           Return Flow Tenge Sub-Flow Statution         0.0 °C         Time to cope Flow Flow Flow Statution         2.0 min           Ad Charlog of the Netl exchanges         1.00 °C         Time to cope Flow Flow Flow Statution         2.0 min           Visional for switch ON 2 HEX         0.00 °C         Time to cope Flow Flow Statution         1.0 min           Visional for switch ON 2 HEX         0.00 °C         Time to cope Flow Flow Statution         1.0 min	nun Richard New Yang 77.6 °C 07F. Time Purge Function 2 0 mm etum Riow Limitation 1.0 Min Riow Temperature Ital activated Purge Richard New Limitation 0.0 °C Time to open Trajing FLK-Ho22 240.0 13 Change of the heat extranspes 100.0 °C Time to activated Purge FLK-Ho22 10.0 10 min Right presention 0.0 FLK 05.0 %	um Reham Flow Temp.         75.0 °C         OFF-Time Purge Function         2.0 min.           tum Flow Limitation         1.0         Min Flow Temperature to activated Purge.         00.0 °C           emperature Max Value         80.0 °C         Time to open Flap HEX-H02         240.0 s	Num Return Flow Temp.         75.0 °C         OFF-Time Purge Function         2.0 min           etun Flow Limitation         1.0         Min Flow Temperature to activated Purge         00.0 °C           Temperature Max Value         60.8 °C         Time to open Flag HEX-H02         240 s s	xemum Return Flow Temp. 75.0 °C OFF-Time Purge Function 2.0 min Return Flow Limitation 1.0 Min Flow Temperature to activated Purge 00.0 °C	emum Return Flow Temp. 75.0 °C OFF-Time Purge Function 20 min Return Flow Limitation 1.0 Min Flow Temperature to activated Purge 00.0 °C	ximum Return Flow Temp. 75.0 °C OFF-Time Purge Function 2.0 min	ferential pressure control - KP Pump 2 0.4 Heat Exchanger A02 - TN 180	rentball pressure control - KP Pump 1         0.4         Heat Exchanger A01 - TN         100 c           rentball pressure control - KP Pump 1         100 s         Heat Exchanger A02 - KP         100 r           rentball pressure control - KP Pump 2         0.4         Heat Exchanger A02 - TN         180 c		
semum Return From Exerc.         75.0 °C         OFF-Time Parge Function         2.0 mm           Return Flow Limitation         1.0         Min Flow Temperature to activated Purge         60.5 °C           Weithersenarce Nak Value         0.00 °C         Time to ope Flow Flow FLOW         2.40 0 si           ad Change of the Inst exchanges         1.60 nn         Time to ope Flow Flow FLOW         2.40 0 si           ad Change of the Inst exchanges         1.0 nm         5.0 % in         1.0 mm           bit Flow Settion Coord Set & Balage         2.0 mm         1.0 mm	Austmum Return Flow Temp.         75.0 °C         OFF-Time Purge Function         2.0 min           4P Return Flow Limitation         1.0         Min Flow Temperature to activated Purge         60.0 °C           Now Temperature Max Value         80.0 °C         Time to open Flap HEV-4-02         2.440 °s	Aaximum Return Flow Temp. 75.0 °C OFF-Time Purge Function 2.0	n Return Flow Temp. 75.0 °C OFF-Time Purge Function 2.0 mir m Flow Limitation 1.0 Min Flow Temperature to activated Purge 00.0 °C	mmm Return From Turne         776.5 °C         OPF-Time Purge Function         2.0 mm           Return Flow Limitation         1.0         Min Flow Temperature to activated Purge         0.05 °C           Return Flow Limitation         0.0 °C         min Flow Temperature to activated Purge         0.05 °C           Ad Change of the field exchangers         100 °C         Time to open Flow Flow Flow Activated Purge         2.04 D II           Ad Change of the field exchangers         100 °C         Time bace to auto         1.0 min	mmm Return Flow Teng         75.0 °C         OFF-Time Purgs Function         2.0 mm           Return Flow Limitation         1.0         Min Flow Tengenature to activated Purgs         6.03.7 °C           Return Flow Tenge Sub-Flow Statution         0.0 °C         Time to cope Flow Flow Flow Statution         2.0 min           Ad Charlog of the Netl exchanges         1.00 °C         Time to cope Flow Flow Flow Statution         2.0 min           Visional for switch ON 2 HEX         0.00 °C         Time to cope Flow Flow Statution         1.0 min           Visional for switch ON 2 HEX         0.00 °C         Time to cope Flow Flow Statution         1.0 min	nun Richard New Yang 77.6 °C 07F. Time Purge Function 2 0 mm etum Riow Limitation 1.0 Min Riow Temperature Ital activated Purge Richard New Limitation 0.0 °C Time to open Trajing FLK-Ho22 240.0 13 Change of the heat extranspes 100.0 °C Time to activated Purge FLK-Ho22 10.0 10 min Right presention 0.0 FLK 05.0 %	um Reham Flow Temp.         75.0 °C         OFF-Time Purge Function         2.0 min.           tum Flow Limitation         1.0         Min Flow Temperature to activated Purge.         00.0 °C           emperature Max Value         80.0 °C         Time to open Flap HEX-H02         240.0 s	Num Return Flow Temp.         75.0 °C         OFF-Time Purge Function         2.0 min           etun Flow Limitation         1.0         Min Flow Temperature to activated Purge         00.0 °C           Temperature Max Value         60.8 °C         Time to open Flag HEX-H02         240 s s	xemum Return Flow Temp. 75.0 °C OFF-Time Purge Function 2.0 min Return Flow Limitation 1.0 Min Flow Temperature to activated Purge 00.0 °C	emum Return Flow Temp. 75.0 °C OFF-Time Purge Function 20 min Return Flow Limitation 1.0 Min Flow Temperature to activated Purge 00.0 °C	ximum Return Flow Temp. 75.0 °C OFF-Time Purge Function 2.0 min		rentfall pressure control - KP Pump 1         0.4         Heat Exchanger A01 - TN         180 0           rentfall pressure control - Tn Pump 1         10 0 s         Heat Exchanger A02 - KP         1.0	itterential pressure control - Tn Pump 2 10.0 s Min Flow Temperature to activated Bypass	85.0 °C
wit Temperature Setpond Day-Mode         80.0 °C         OH-Time Purge Function         1.0 mm           samum Return Flow Time,         75.0 °C         OFF-Time Purge Function         2.0 mm           Return Flow Limitation         1.0         Min Flow Temperature to advaled Purge         60.0 °C           With Prove Limitation         1.0         Min Flow Temperature to advaled Purge         60.0 °C           With Prove Limitation         1.0         Time to ope Flow Flow Flow Flow         60.0 °C           ad Change Other Mark exchanges         160.0 °C         Time to ope Flow Flow Flow         1.0 mm           ad Change Other Mark exchanges         160.0 °C         Time back to auto         1.0 mm           bit Video Mark to ave Other Mark exchanges         0.0 °C         Time back to auto         1.0 mm	Iow Temperature Steport Day Mode         60.9 °C         O/k Time Purge Function         1.9 min           Assemum Return Prov Temp         759 °C         O/k Time Purge Function         2.9 min           Pattern Flow Limitation         1.0         Im Refore Temperature backholder Purge         60.9 °C           Tom Temperature Max Value         60.9 °C         Time to open Flags HEK-Ad2         240 °C	Haw Temperature Setpoint Day-Mode         80.9 °C         ON-Time Purge Function         1.0           Assemum Return Flow Temp.         75.0 °C         OFF-Time Purge Function         2.0	Imperature Selpoint Day-Mode         80.0 °C         ON-Time Purge Function         1.0 min           In Return Flow Temp         75.0 °C         OFF-Time Purge Function         2.0 min           In Flow Limitation         1.0         Min Flow Temperature to activated Purge         00.0 °C	w Temperature Setpoint Day Mode         80.0 °C         OK-Time Purge Function         1.0 mm           memm Return Time Temp         75.5 °C         OFF.Time Purge Function         1.0 mm           Return Time Time         1.0         Mm Time Time to activited Time to activite Time to actitactite Time to activite Time to activite Time to activ	Interpretative Steport Day-Mode         80.0 °C         0/4 Time Purge Function         1.0 mm           memm Return Tow Temp         75.9 °C         0/4 Time Purge Function         2.0 mm           Return Tow Temp         75.9 °C         0/4 Time Purge Function         2.0 mm           Return Tow Limits         1.0         Min Flow Temperature tackvalid Purge         60.0 °C           If Change of the heat exchange return tackvalid Purge         60.0 °C         Time to open Funge Function         1.0 mm           V/4 dgnal for seation Of 14 EVEX         60.5 °C         Time tackto auto         1.0 mm           V/4 dgnal for seation Of 14 EVEX         60.5 °G         Min         1.0 mm	Temperature Setport Day Mode         80.9 °C         OH: Time Purge Function         1.9 mm           mum Return Flow Time.         75.9 °C         OF: Time Purge Function         2.9 mm           mum Return Flow Time.         1.0         Inf. Pow Time.         2.0 °C           mem Flow Limited         1.0         Inf. Pow Timester to activate Purge         2.0 °C           Temperature Nav Value         0.0 °C         Time to open Flap HCX+02         2.40 °s           Change of the heat exchangers         160.0 °C         Time to acto auto         1.9 mm	Imperature Setpoint Day Mode         60 0 °C         Off-Time Runge Function         1 0 mm           Im Return from Temp         75 0 °C         OFF-Time Runge Rundsin         2 0 mm           In Plave Limition         10         MM River Remember Australied Purge         60 0 °C           emperature Max Value         60 0 °C         Time to open Flags HEK-Ad2         240 0 s	Temperature Setport Day Mode         80.0 °C         Ot-Time Purge Function         1.0 mm           num Return Pow Tenge.         75.0 °C         OFF.Time Purge Function         2.0 min           num Return Flow Limitation         1.0         Min Flow Tenge         60.0 °C           Temperature Back Value         00.0 °C         Time to open Flap HEX+A2         240.0 s	will Famperature Setpoint Day Mode         80.0 °C         O/H Time Purge Fundion         1.0 min           wimum Return Flow Temp.         75.0 °C         OFF-Time Purge Fundion         2.0 min           Return Flow Limitation         1.0         Min Flow Temperature to activated Purge         60.0 °C	w Temperature Skipont Day-Mode         80.0 °C         OVE-Time Purge Function         1.0 min           emum Return Flow Temp         75.8 °C         OFF-Time Purge Function         2.0 min           Return Flow Limitation         1.0         Min Flow Temperature to activated Purge         60.0 °C	w Temperature Selpoint Day-Mode 80.0 °C ON-Time Purge Function 1.0 min simum Return Flow Temp. 75.0 °C OFF-Time Purge Function 2.0 min		rentfall pressure control - KP Pump 1         0.4         Heat Exchanger A01 - TN         180 0           rentfall pressure control - Tn Pump 1         10 0 s         Heat Exchanger A02 - KP         1.0		
wit Temperature Setpond Day-Mode         80.0 °C         OH-Time Purge Function         1.0 mm           samum Return Flow Time,         75.0 °C         OFF-Time Purge Function         2.0 mm           Return Flow Limitation         1.0         Min Flow Temperature to advaled Purge         60.0 °C           With Prove Limitation         1.0         Min Flow Temperature to advaled Purge         60.0 °C           With Prove Limitation         1.0         Time to ope Flow Flow Flow Flow         60.0 °C           ad Change Other Mark exchanges         160.0 °C         Time to ope Flow Flow Flow         1.0 mm           ad Change Other Mark exchanges         160.0 °C         Time back to auto         1.0 mm           bit Video Mark to ave Other Mark exchanges         0.0 °C         Time back to auto         1.0 mm	Iow Temperature Steport Day Mode         60.9 °C         O/k Time Purge Function         1.9 min           Assemum Return Prov Temp         75.9 °C         O/k Time Purge Function         2.9 min           Pattern Flow Limitation         1.0         Im Refore Temperature backholder Purge         60.9 °C           Iow Temperature Max Value         60.9 °C         Time to open Flags HEK-Ad2         240 °C	Haw Temperature Setpoint Day-Mode         80.9 °C         ON-Time Purge Function         1.0           Assemum Return Flow Temp.         75.0 °C         OFF-Time Purge Function         2.0	Imperature Selpoint Day-Mode         80.0 °C         ON-Time Purge Function         1.0 min           In Return Flow Temp         75.0 °C         OFF-Time Purge Function         2.0 min           In Flow Limitation         1.0         Min Flow Temperature to activated Purge         00.0 °C	w Temperature Setpoint Day Mode         80.0 °C         OK-Time Purge Function         1.0 mm           memm Return Time Temp         75.5 °C         OFF.Time Purge Function         1.0 mm           Return Time Time         1.0         Mm Time Time to activited Time to activite Time to actitactite Time to activite Time to activite Time to activ	Interpretative Steport Day-Mode         80.0 °C         ON-Time Purge Function         1.0 mm           memm Return Tow Temp         75.6 °C         OFF-Time Purge Function         2.0 mm           Return Tow Temp         75.6 °C         OFF-Time Purge Function         2.0 mm           Return Tow Temp         10         Mm Flow Temperature to activated Purge         60.0 °C           Return Tow Limits         1.0         mm flow Temperature to activated Purge         60.0 °C           d Charbage of the Net exchange for the State Inchanges         150.0 mm         1.0 mm           V/-dignal for seatch ON 2 HEX         69.5 %         1.0 mm           Delay for submit on coord heat extranger         20.0 mm         1.0 mm	Temperature Setport Day Mode         80.9 °C         OH: Time Purge Function         1.9 mm           mum Return Flow Time.         75.9 °C         OF: Time Purge Function         2.9 mm           mum Return Flow Time.         1.0         Inf. Pow Time.         2.0 °C           mem Flow Limited         1.0         Inf. Pow Timester to activate Purge         2.0 °C           Temperature Nav Value         0.0 °C         Time to open Flap HCX+02         2.40 °s           Change of the heat exchangers         160.0 °C         Time to acto auto         1.9 mm	Imperature Setpoint Day Mode         60 0 °C         Off-Time Runge Function         1 0 mm           Im Return from Temp         75 0 °C         OFF-Time Runge Rundsin         2 0 mm           In Plave Limition         10         MM River Remember Australied Purge         60 0 °C           emperature Max Value         60 0 °C         Time to open Flags HEK-Ad2         240 0 s	Temperature Setport Day Mode         80.0 °C         Ot-Time Purge Function         1.0 mm           num Return Pow Tenge.         75.0 °C         OFF.Time Purge Function         2.0 min           num Return Flow Limitation         1.0         Min Flow Tenge         60.0 °C           Temperature Back Value         00.0 °C         Time to open Flap HEX+A2         240.0 s	we Temperature Setpoint Day-Mode         80.9 °C         OVE-Time Purge Fundion         1.9 min           wimum Return Flow Temp.         75.8 °C         OFF-Time Purge Fundion         2.9 min           Return Flow Limitation         1.0         Min Flow Temperature to activated Purge.         60.8 °C	w Temperature Skipont Day-Mode         80.0 °C         OVE-Time Purge Function         1.0 min           emum Return Flow Temp         75.8 °C         OFF-Time Purge Function         2.0 min           Return Flow Limitation         1.0         Min Flow Temperature to activated Purge         60.0 °C	w Temperature Selpoint Day-Mode 80.0 °C ON-Time Purge Function 1.0 min simum Return Flow Temp. 75.0 °C OFF-Time Purge Function 2.0 min		rentfall pressure control - KP Pump 1         0.4         Heat Exchanger A01 - TN         180 0           rentfall pressure control - Tn Pump 1         10 0 s         Heat Exchanger A02 - KP         1.0	Itterential pressure control - KP Pump 2 0.4 Heat Exchanger A02 - TN	180.0 s
Mercedult pressure control - Tn Pump 2         10.8 s         Min River Temperature to activate Bippuss         85.0 °C           Min Interventure Stelphone Disy Adad         80.0 °C         OV-Time Purge Function         10.8 min           Ream Riskin Parket         7.8 °C         OV-Time Purge Function         10.8 min           Ream Riskin Parket         7.8 °C         OV-Time Purge Function         2.0 min           Ream Riskin Parket         0.0 °C         Time to oper Funge Purge Fundon         0.0 0.7 °C           Marcescaret Read Read Rest         160.0 °C         Time to oper Funge Purge Fundon         0.0 0.7 °C           MarceStrate Rest Read Rest         160.0 °C         Time to oper Funge Purge Fundon         1.0 min           MarceStrate Rest Rest Rest Rest Rest Rest Rest Re	Miterial grassmer control. To Funge 2         100.5         Mon River Emperature to Scholder Bigass 5         55.70           Ioa Temperature Barbourd Day Mode         000.0.10         OH Time Parage Function         1.0 mm           Ioa maximum Return Files Mode         000.0.10         OH Time Parage Function         1.0 mm           Parture Flow Limitation         10         Mon River Files Mode         0.0 mm           Parture Flow Limitation         10         Mon River Files Mode         0.0 mm           Parture Flow Limitation         0.0 mm         Time to open Files ER-6A-92         2.20 mm	Internatial pressure control - Tin Pump 2         10.0 s         Min Flow Temperature to activated Bypass.         855           Iow Temperature Stepont Day-Mode         80.0 °C         ON-Time Purge Function         10           Iaxemum Return Flow Temp.         75.0 °C         OFF-Time Purge Function         2.0	Jaip pressure control - Tn Pump 2         10.0 s         Min Riow Temperature to activate Bippass         65.0 °C           mperature to activate Control - Trine Punge Fundion         0.0 °C         Off-Time Punge Fundion         0.0 °C           m Riow Temperature to activate Control - Trine Punge Fundion         75.0 °C         Off-Time Punge Fundion         2.0 min           m Riow Limitation         1.0         Min Riow Temperature to activate Operative         0.0 5°C         0.0 °C	executal pressure control - Tn Pump 2         10.0 s         Min Row Temperature to advanted Bippass         85.0 °C           in Temperature Stepond Day Mode         80.0 °C         OVE Time Purge Function         1.0 min           memory Tables Mode         75.0 °C         OVE Time Purge Function         1.0 min           Min Row Temperature to advanted Druge         60.0 °C         Time Fore Time Purge Function         2.0 min           Refuen Row Temperature Max Value         80.0 °C         Time to open Flap FECH-502         2.0 0.0 °C           in Charge of the Net Restrangers         156.0 °C         Time to open Flap FECH-502         2.0 0.0 °C           in Charge of the Net Restrangers         156.0 °C         Time to advanted Truge         1.0 min	seedal pressure context - Tri Pump 2         10.0 B         Min Flow Temperature to activate Bigass         65.0 °C           in Emperature Stepping Day Mode         80.0 °C         OFE Time Purgle Function         10.0 min           Return Flow Temperature to activate Bigass         65.0 °C         OFE Time Purgle Function         10.0 min           Return Flow Temperature to activate Bigass         60.0 °C         Time Segret Flow Function         0.0 a flow           Return Flow Temperature to activate Bigass         10.0 °C         Min Flow Temperature to activate Bugass         0.0 a flow           Return Flow Temperature Ratio         0.0 °C         Time Segret Flow Flow FUK-Mo2         2.0 0 min           al Charge of the Neat Exchangers         10.0 °C         Time Segret Flow Flow         1.0 min           Vid Dan Settor Ox 24 EEX         ED 3 °G         Time Segret Flow Flow         1.0 min           Vid Dan Settor Settor Second Heat Heatinger (200 min         ED 3 °G         Time Segret Flow Flow         1.0 min	ential pressure context - Tn Pump 2         10.8 s         Min Flow Temperature to activate Rippass         85.0 °C           Temperature Stepport Day Mode         00.9 °C         OH-Time Purge Function         1.0 min           mum Return Rev Tempe         75.0 °C         OH-Time Purge Function         2.0 min           Min Flow Limitation         1.0         Min Flow Temperature to activate A Purge         60.0 °C           Temperature Bax Value         00.0 °C         Time to open Flop FLX-452         240.0 s           Change of the heat exchangers         100.0 °C         Time back to audo         1.0 min           Quarta for author N0.2 FLX         65.0 °C         Time back to audo         1.0 min	otds pressure context - 10 Fump 2         110 9 T         Mon Pice Temperature to schedule dispass 1         85.0 °C           umperature Subject Day Mode         80.9 °C         OV Time Programmer to schedule dispass 1         1.9 run           marketin Prov Time 75.8 °C         OPT-Time Programmer to schedule dispass 1         2.9 min         1.9 run           tam Pise Limitation         1.5         Min Pire Time provide schedule dispass 1         6.0.3 °C           temperature Maximum 4         0.0 °C         The to schedule dispass 2         2.40 °S	exhibit pressure conduct T-FP Pump 2         150.5 to         Min From Emergenature to activated Bigauss         88.9 °C           Temperature Subjoint Day Mode         60.0 °C         OH From Emerge Fundson         1.0 min           Minn From Return From Funge Fundson         75.9 °C         OH From Emerge Fundson         2.0 min           Minn From Kumbalton         T.5         Min From Emerge Fundson         6.05 °C         2.0 min           Reservature Markatow         0.0 °C         Time to open Finge Fundson         6.05 °C         2.40 °S	Internative pressure control - Tn Pump 2         10.0 s         Min Row Temperature to activate Bigass         85.0 °C           We Temperature Steppind Day-bade         80.0 °C         OVE Time Purge Function         1.0 min           we may be than Pow Tempe         75.0 °C         OVE Time Purge Function         2.0 min           Return Rive Limitation         1.6         Min Row Tempe activate to activate Durge         80.0 °C	seeded pressure contor - Tn Pump 2         10.0 s         Min Row Temperature to activate 0 ppass         85.0 °C           r Temperature StepenD 2x3Mode         80.0 °C         CVF Time Purge Function         1.0 min           memor Return Row Temp         75.5 °C         CVF Time Purge Function         2.0 min           Return Row Temp         75.5 °C         OFF Time Purge Function         2.0 min           Return Row Temp         75.0 °C         OFF Time Purge Function         2.0 min           Min Row Temperature to activated Purge         60.5 °C         0.0 °C         0.0 °C	krentku pressure contol - Tri Pump 2         10.0 s         Min Flow Temperature to activated Bipass         85.0 °C           w Temperature Skipoint DayMode         80.0 °C         ON-Time Purge Fundion         1.0 min           wimum Return Prov Temp:         75.8 °C         OFF-Time Purge Fundion         2.0 min		rential pressure control - KP Pump 1 0.4 Heat Exchanger A01 - TN 180 0		and the second second
Mercedult pressure control - Tn Pump 2         10.8 s         Min River Temperature to activate Bippuss         85.0 °C           Min Interventure Stelphone Disy Adad         80.0 °C         OV-Time Purge Function         10.8 min           Ream Riskin Parket         7.8 °C         OV-Time Purge Function         10.8 min           Ream Riskin Parket         7.8 °C         OV-Time Purge Function         2.0 min           Ream Riskin Parket         0.0 °C         Time to oper Funge Purge Fundon         0.0 0.7 °C           Marcescaret Read Read Rest         160.0 °C         Time to oper Funge Purge Fundon         0.0 0.7 °C           MarceStrate Rest Read Rest         160.0 °C         Time to oper Funge Purge Fundon         1.0 min           MarceStrate Rest Rest Rest Rest Rest Rest Rest Re	Mitendial genesises control: The Pump 2         50.5 ar         Man River Tangenature to Scholarde Bipass 6         55.7 cr           Isina Temperature Scholard Day Mode         60.0 ar         Cr         Ork Time Pump 2         10 ar           Isina Temperature Scholard Day Mode         60.0 ar         Cr         Ork Time Pump 2         10 arm           Isina Temperature Scholard Day Mode         75.3 cr         Ork Time Pump 2         10 arm         12 arm           Pitkute Toky Limitation         To         Man River Time Pump 2         60.0 cr         7.0 arm         7.0 arm <td>Atterential pressure control - Tn Pump 2         10.0 s         Min Riow Temperature to activated Bypass.         855           Now Temperature Selpoint Day-Mode         80.0 °C         ON-Time Purge Function         10           Assemum Return Flow Temp.         75.0 °C         OFF-Time Purge Function         2.0</td> <td>Jaip pressure control - Tn Pump 2         10.0 s         Min Riow Temperature to activate Bippass         65.0 °C           mperature to activate Control - Trine Punge Fundion         0.0 °C         Off-Time Punge Fundion         0.0 °C           m Riow Temperature to activate Control - Trine Punge Fundion         75.0 °C         Off-Time Punge Fundion         2.0 min           m Riow Limitation         1.0         Min Riow Temperature to activate Operative         0.0 5°C         0.0 °C</td> <td>executal pressure control - Tn Pump 2         10.0 s         Min Row Temperature to advanted Bippass         85.0 °C           in Temperature Stepond Day Mode         80.0 °C         OVE Time Purge Function         1.0 min           memory Tables Mode         75.0 °C         OVE Time Purge Function         1.0 min           Min Row Temperature to advanted Druge         60.0 °C         Time Fore Time Purge Function         2.0 min           Refuen Row Temperature Max Value         80.0 °C         Time to open Flap FECH-502         2.0 0.0 °C           in Charge of the Net Restrangers         156.0 °C         Time to open Flap FECH-502         2.0 0.0 °C           in Charge of the Net Restrangers         156.0 °C         Time to advanted Truge         1.0 min</td> <td>seedal pressure context - Tri Pump 2         10.0 B         Min Flow Temperature to activate Bigass         65.0 °C           in Emperature Stepping Day Mode         80.0 °C         OFE Time Purgle Function         10.0 min           Return Flow Temperature to activate Bigass         65.0 °C         OFE Time Purgle Function         10.0 min           Return Flow Temperature to activate Bigass         60.0 °C         Time Segret Flow Function         0.0 a flow           Return Flow Temperature to activate Bigass         10.0 °C         Min Flow Temperature to activate Bugass         0.0 a flow           Return Flow Temperature Ratio         0.0 °C         Time Segret Flow Flow FUK-Mo2         2.0 0 min           al Charge of the Neat Exchangers         10.0 °C         Time Segret Flow Flow         1.0 min           Vid Dan Settor Ox 24 EEX         ED 3 °G         Time Segret Flow Flow         1.0 min           Vid Dan Settor Settor Second Heat Heatinger (200 min         ED 3 °G         Time Segret Flow Flow         1.0 min</td> <td>ential pressure context - Tn Pump 2         10.8 s         Min Flow Temperature to activate Rippass         85.0 °C           Temperature Stepport Day Mode         00.9 °C         OH-Time Purge Function         1.0 min           mum Return Rev Tempe         75.0 °C         OH-Time Purge Function         2.0 min           Min Flow Limitation         1.0         Min Flow Temperature to activate A Purge         60.0 °C           Temperature Bax Value         00.0 °C         Time to open Flop FLX-452         240.0 s           Change of the heat exchangers         100.0 °C         Time back to audo         1.0 min           Quarta for author N0.2 FLX         65.0 °C         Time back to audo         1.0 min</td> <td>otds pressure context - 10 Fump 2         110 9 T         Mon Pice Temperature to schedule dispass 1         85.0 °C           umperature Subject Day Mode         80.9 °C         OV Time Programmer to schedule dispass 1         1.9 run           marketin Prov Time 75.8 °C         OPT-Time Programmer to schedule dispass 1         2.9 min         1.9 run           tam Pise Limitation         1.5         Min Pire Time provide schedule dispass 1         6.0.3 °C           temperature Maximum 4         0.0 °C         The to schedule dispass 2         2.40 °S</td> <td>exhibit pressure conduct T-FP Pump 2         150.5 to         Min From Emergenature to activated Bigauss         88.9 °C           Temperature Subjoint Day Mode         60.0 °C         OH From Emerge Fundson         1.0 min           Minn From Return From Funge Fundson         75.9 °C         OH From Emerge Fundson         2.0 min           Minn From Kumbalton         T.5         Min From Emerge Fundson         6.05 °C         2.0 min           Reservature Markatow         0.0 °C         Time to open Finge Fundson         6.05 °C         2.40 °S</td> <td>Internative pressure control - Tn Pump 2         10.0 s         Min Row Temperature to activate Bigass         85.0 °C           We Temperature Steppind Day-bade         80.0 °C         OVE Time Purge Function         1.0 min           we may be than Pow Tempe         75.0 °C         OVE Time Purge Function         2.0 min           Return Rive Limitation         1.6         Min Row Tempe activate to activate Durge         80.0 °C</td> <td>seeded pressure contor - Tn Pump 2         10.0 s         Min Row Temperature to activate 0 ppass         85.0 °C           r Temperature StepenD 2x3Mode         80.0 °C         CVF Time Purge Function         1.0 min           memor Return Row Temp         75.5 °C         CVF Time Purge Function         2.0 min           Return Row Temp         75.5 °C         OFF Time Purge Function         2.0 min           Return Row Temp         75.0 °C         OFF Time Purge Function         2.0 min           Min Row Temperature to activated Purge         60.5 °C         0.0 °C         0.0 °C</td> <td>krentku pressure contol - Tri Pump 2         10.0 s         Min Flow Temperature to activated Bipass         85.0 °C           w Temperature Skipoint DayMode         80.0 °C         ON-Time Purge Fundion         1.0 min           wimum Return Prov Temp:         75.8 °C         OFF-Time Purge Fundion         2.0 min</td> <td>terretelement and the Denne of the Contract of</td> <td></td> <td>ifferential pressure control - Tn Pump 1 10.0 s Heat Exchanger A02 - KP</td> <td>1.0</td>	Atterential pressure control - Tn Pump 2         10.0 s         Min Riow Temperature to activated Bypass.         855           Now Temperature Selpoint Day-Mode         80.0 °C         ON-Time Purge Function         10           Assemum Return Flow Temp.         75.0 °C         OFF-Time Purge Function         2.0	Jaip pressure control - Tn Pump 2         10.0 s         Min Riow Temperature to activate Bippass         65.0 °C           mperature to activate Control - Trine Punge Fundion         0.0 °C         Off-Time Punge Fundion         0.0 °C           m Riow Temperature to activate Control - Trine Punge Fundion         75.0 °C         Off-Time Punge Fundion         2.0 min           m Riow Limitation         1.0         Min Riow Temperature to activate Operative         0.0 5°C         0.0 °C	executal pressure control - Tn Pump 2         10.0 s         Min Row Temperature to advanted Bippass         85.0 °C           in Temperature Stepond Day Mode         80.0 °C         OVE Time Purge Function         1.0 min           memory Tables Mode         75.0 °C         OVE Time Purge Function         1.0 min           Min Row Temperature to advanted Druge         60.0 °C         Time Fore Time Purge Function         2.0 min           Refuen Row Temperature Max Value         80.0 °C         Time to open Flap FECH-502         2.0 0.0 °C           in Charge of the Net Restrangers         156.0 °C         Time to open Flap FECH-502         2.0 0.0 °C           in Charge of the Net Restrangers         156.0 °C         Time to advanted Truge         1.0 min	seedal pressure context - Tri Pump 2         10.0 B         Min Flow Temperature to activate Bigass         65.0 °C           in Emperature Stepping Day Mode         80.0 °C         OFE Time Purgle Function         10.0 min           Return Flow Temperature to activate Bigass         65.0 °C         OFE Time Purgle Function         10.0 min           Return Flow Temperature to activate Bigass         60.0 °C         Time Segret Flow Function         0.0 a flow           Return Flow Temperature to activate Bigass         10.0 °C         Min Flow Temperature to activate Bugass         0.0 a flow           Return Flow Temperature Ratio         0.0 °C         Time Segret Flow Flow FUK-Mo2         2.0 0 min           al Charge of the Neat Exchangers         10.0 °C         Time Segret Flow Flow         1.0 min           Vid Dan Settor Ox 24 EEX         ED 3 °G         Time Segret Flow Flow         1.0 min           Vid Dan Settor Settor Second Heat Heatinger (200 min         ED 3 °G         Time Segret Flow Flow         1.0 min	ential pressure context - Tn Pump 2         10.8 s         Min Flow Temperature to activate Rippass         85.0 °C           Temperature Stepport Day Mode         00.9 °C         OH-Time Purge Function         1.0 min           mum Return Rev Tempe         75.0 °C         OH-Time Purge Function         2.0 min           Min Flow Limitation         1.0         Min Flow Temperature to activate A Purge         60.0 °C           Temperature Bax Value         00.0 °C         Time to open Flop FLX-452         240.0 s           Change of the heat exchangers         100.0 °C         Time back to audo         1.0 min           Quarta for author N0.2 FLX         65.0 °C         Time back to audo         1.0 min	otds pressure context - 10 Fump 2         110 9 T         Mon Pice Temperature to schedule dispass 1         85.0 °C           umperature Subject Day Mode         80.9 °C         OV Time Programmer to schedule dispass 1         1.9 run           marketin Prov Time 75.8 °C         OPT-Time Programmer to schedule dispass 1         2.9 min         1.9 run           tam Pise Limitation         1.5         Min Pire Time provide schedule dispass 1         6.0.3 °C           temperature Maximum 4         0.0 °C         The to schedule dispass 2         2.40 °S	exhibit pressure conduct T-FP Pump 2         150.5 to         Min From Emergenature to activated Bigauss         88.9 °C           Temperature Subjoint Day Mode         60.0 °C         OH From Emerge Fundson         1.0 min           Minn From Return From Funge Fundson         75.9 °C         OH From Emerge Fundson         2.0 min           Minn From Kumbalton         T.5         Min From Emerge Fundson         6.05 °C         2.0 min           Reservature Markatow         0.0 °C         Time to open Finge Fundson         6.05 °C         2.40 °S	Internative pressure control - Tn Pump 2         10.0 s         Min Row Temperature to activate Bigass         85.0 °C           We Temperature Steppind Day-bade         80.0 °C         OVE Time Purge Function         1.0 min           we may be than Pow Tempe         75.0 °C         OVE Time Purge Function         2.0 min           Return Rive Limitation         1.6         Min Row Tempe activate to activate Durge         80.0 °C	seeded pressure contor - Tn Pump 2         10.0 s         Min Row Temperature to activate 0 ppass         85.0 °C           r Temperature StepenD 2x3Mode         80.0 °C         CVF Time Purge Function         1.0 min           memor Return Row Temp         75.5 °C         CVF Time Purge Function         2.0 min           Return Row Temp         75.5 °C         OFF Time Purge Function         2.0 min           Return Row Temp         75.0 °C         OFF Time Purge Function         2.0 min           Min Row Temperature to activated Purge         60.5 °C         0.0 °C         0.0 °C	krentku pressure contol - Tri Pump 2         10.0 s         Min Flow Temperature to activated Bipass         85.0 °C           w Temperature Skipoint DayMode         80.0 °C         ON-Time Purge Fundion         1.0 min           wimum Return Prov Temp:         75.8 °C         OFF-Time Purge Fundion         2.0 min	terretelement and the Denne of the Contract of		ifferential pressure control - Tn Pump 1 10.0 s Heat Exchanger A02 - KP	1.0
Resental pressure control - KP Pump 2         0.4         Head Exchanger Add - TN         190.0 st           Resental pressure control - NP Pump 2         0.4         Head Exchanger Add - TN         190.0 st           Man From Tamper and Segment Daysboot         0.0 st         0.0 Thm Pump 2         0.0 st         85.5 °C           Man From Tamper and Segment Daysboot         0.0 St         0.0 Thm Pump 2         0.0 st         1.0 min           Man From Tamper and Segment Daysboot         0.0 Thm Pump 2         0.0 Thm P	Interestal pressure control - KP Pump 2         0.4         Heat Exchanger A02 - TN         100.0           Interestal pressure control - TR Pump 2         10.0         Min Pow Temperature to accurite Highest 50.0         55.0           Intermental pressure control - TR Pump 2         0.0.0         CO Pimin Pump Emotion         10.0         10.0           Intermentative Store Obas Mode         0.0.0         CO Pimin Pump Emotion         10.0         10.0           Intermentative Store Obas Mode         75.0         OPF-Time Pump Endon         2.0         2.0           OP Referentative Store Unitation         1.0         Min Flow Temperature to acculate Durge         0.0.0         CO Time Pump Endon         2.0           OP Referentative Backlade         0.0.0         CO Time Pump Endon         2.0         Time to open Tage HEX-K422         2.0	Othershal pressure control - KP Pump 2         0.4         Heat Exchanger A02 - 711         100           Othershal pressure control - TK Pump 2         0.0 m         Nm Flow Immgendure to activate 8 physics         55           Othershal pressure control - TK Pump 2         0.0 m         0.0 m         Flow Immgendure to activate 8 physics         55           Min Flow Immgendure School Day-Madic         0.0 °C         0/4 / Time Pump Function         10           Ausmum Return Flow Tring         75.8 °C         0/4 / Time Pump Function         2.0	Maj pressure control: - P Pump 2         0.4         Held Exchange/400 - Tric         1980 0           Maj pressure control: - To Pump 2         10.9 ac         Man Riser Temperature to activate Bilgeost 0.5 af 0.0 ac         0.0 a * C           Destination Stripping Tempe         75.9 * C         OFT: Time Purge Function         1.0 million           Destination Stripping Tempe         75.9 * C         OFT: Time Purge Function         2.0 million	Headball pressure control - KP Pump 2         0.4         Headball pressure control - KP Pump 2         0.4           Headball pressure control - Tin Fump 2         100.3         Min Flow Temperature to activitie Bypass         65.5 °C           Remonative Streption Davidool         0.60.7 °C         0.45 Firme Purgs Function         1.0 °m           Remonative Streption Davidool         75.9 °C         0.45 Firme Purgs Function         2.0 °m           Remonative Streption Davidool         0.03 °C         0.10 °C         0.01 °C         2.0 °m           W Temperature Streption Davidool         0.03 °C         Time to open Fugo HeX+4/92         2.40 °s           M Champ of Lefts Head enchangers         106.3 °m         Time to acto auto         1.0 °m	sensible pressure control - KP Pump 2         0.4         Heat Exchanger 402 - TN         180.0 s           sensible pressure control - KP Pump 2         0.4         Heat Exchanger 402 - TN         180.0 s           memoh lapersalue control - TP Pump 2         0.8         Min River Emperature to activate Bipaus         68.5 °C           memoh lapersalue control - TP Pump 2         0.4         Min River Emperature to activate Bipaus         68.5 °C           memoh lapersalue control - TP Pump 2         75.8 °C         OFF-Tme Purge Function         1.0 nm           memoh lapersalue control - TP Pump 2         75.8 °C         Min River Emperature to activate Bipaus         60.0 °C           memoh lapersalue control - TP Pump 2         0.0 °C         Time to open Filler PicK-402         2.0 °m           d Charlog of the heat exchangers         190.0 °C         Time to open Filler PicK-402         2.40 °m           V Gignal for switch ON 2 HEX         0.50 °C         Time back to auto         1.9 nm	ential pressure control - KP Pump 2         0.4         Heat Exchanger A02 - TN         180.0 s r           ential pressure control - To Pump 2         10.0 s         Mon Flow Temperature Standows Bypass         65.0 °C           representure Stepo To State         00.0 °C         OFF: Thm Purge Function         1.0 min           mum Return Flow Temp.         75.0 °C         OFF: Thm Purge Function         2.0 min           mum Return Flow Temp.         10.0         Mon Flow Temperature Stadows Burger         2.0 min           Temperature Stepo te tackvisted Burger         00.0 °C         Time Flow Temperature Stepo te tackvisted Burger         2.0 min           Change of the heat exchangers         160.0 °C         Time Exacts audo         1.0 min	stat pressure control - KP Pump 2         0.4         Heat Exchange A22 - 7N         100.0 s           mblar pressure control - Th Pump 2         100.0 s         Min Pow Temperature to activated tippass.         E5.0 °C           main pressure stopped Type Mode         00.0 °C         Chinne Purp Reventure to activated tippass.         E5.0 °C           m Return Port Temp         776 °C         OFF-Trme Purp R fundion         2.0 min           m Return Port Temp         10         Min Flow Tempes Ancion         2.0 min           m Return Nov Temp         0.0 °C         Chin Tempe Ancion         2.0 min           m Return Nov Tempe         0.0 °C         Tem to open Trajn EU-A-22         2.2 d0 s	anital pressure control - KP Pump 2         0.4         Heat Exchanger A02 - TN         180.0 s r           ondar pressure control - TP Pump 2         10.0 s r         Mon Filow Emergenature Stage of the Pump 4         65.5 °C           marker stage	Membra pressure control - KP Pump 2         0.4         Heat Elizabaper 402-TN         1100 Ja           Mendba pressure control - Th Pump 2         0.0 Ja         Bin Flow Temperature to activate Dysam         85.5 °C           Mendba pressure control - Th Pump 2         0.0 Ja         Bin Flow Temperature to activate Dysam         85.5 °C           Mendba Press Temp         75.3 °C         CPF Time Purge Function         2.3 °m           Referent Flow Temp         1.0         Min Flow Tem Purge Function         6.0.5 °C	weekslap sessure context - VP mmp 2         0.4         Hest Eichanger 402 - TN         1903 to           weekslap sessure context - Th Pump 2         10.0 a         Min Flow Temperature to activited topiass         65.0 °C           memory Respond by Mode         00.0 °C         OK Time Purge Function         1.3 min           memory Respond by Mode         75.3 °C         OFF Time Purge Function         2.3 min           Mean Thisk Limited         1.0         Min Flow Tempurge to activities to activited Purge         0.0.5 °C	Intendial pressure control - KP Pump 2         0.4         Heat ExitAnger Ad2 - TN         160.0 s           Intendial pressure control - The Tum 2         0.0 s         Min Floor Emperature to activities (Bpass)         85.0 °C           W Temperature Stephone Day Modes         80.9 °C         OFF-Time Purger Function         1.0 min           Intermedial pressure control         75.8 °C         OFF-Time Purger Function         2.0 min	ferential pressure control - KP Pump 1 0.4 Heat Exchanger A01 - TN 180		ifferential pressure control - KP Pump 1 0.4 Heat Exchanger A01 - TN	180.0 s
Benefab grasses control - Th Pump 1         40.5 cr         Heat Exchanger 40.2 - KP         10.1 for the the technologies 40.2 - KP           Benefab grasses control - Th Pump 2         8.4 cr         Heat Exchanger 40.2 - KP         190.0 tr           Benefab grasses control - Th Pump 2         8.4 cr         Heat Exchanger 40.2 - KP         190.0 tr           Star Terrenda grasses control - Th Pump 2         8.4 cr         Heat Exchanger 40.2 - KP         190.0 tr           Star Terrenda grasses control - Th Pump 2         8.0 tr         B.0 Tr         CP         The Pump Fill Star 40.0 tr         1.0 tr           Star Terrenda grasses control - Th Pump 2         7.5 Tr         CP         CP Trme Pump Fill And Star 40.0 tr         1.0 tr           Star Terrenda grasses control - Th Pump 2         7.6 tr         Exchanger 40.0 tr         1.0 tr           Peterschanz Michael Molae         0.0 Tr         The to cope Tap And Pump Fill And Star 40.0 tr         6.0 2 Tr           Star Terrenda Terrenda Fill Star 40.0 tr         1.0 Dit Terrenda Terrenda Fill Star 40.0 tr         2.0 tr         1.0 tr           Verterschanz Michael Molae         1.0 Dit Terrenda Terrenda Fill Star 20.0 tr         1.0 tr         1.0 tr           Verterschanz Michael Molae         1.0 Dit Terrenda Terrenda Fill Star 20.0 tr         1.0 tr         1.0 tr           Ditaing of the heal exchangers         1.	detendial pressure control - Fr Pump 1         10 0 s         Heat Exchanger A22 - NP         10           detendial pressure control - KP Pump 2         0.4         Heat Exchanger A22 - NP         1000           detendial pressure control - KP Pump 2         0.4         Heat Exchanger A22 - NP         1000           bits of the more than the more than the more the more than the the more the activities (Bigass         68.5 °C         0.7 Time Purge Function         1.9 min           sammum Return Flow Temp         755 °C         0.7 Time Purge Function         2.9 min         2.9 min           Partern Flow Limitation         1.0         1.0         Min Flow Temperature to activited Bugass         0.0.2 °C           return travel Matchin         1.0         Time to open Fung HEK-A42         2.240 °C         2.240 °C	decemb pressure control - To Tump 1         -0.0 a         Hast Exchange/A20_2KP         14           decembal pressure control - KP Pump 2         0.4         Hast Exchange/A20_2KP         14           decembal pressure control - To Tump 2         0.6         Hast Exchange/A20_2KP         14           decembal pressure control - To Tump 2         0.0 a         Hast Exchange/A20_2KP         15           one Temperature Segment Day Mode         16.0 a         10.0 a         15           one Temperature Segment Day Mode         16.0 a         17         The Parge Fundion         12           one Temperature Segment Day Mode         17.0 a         17.0 a         17         10.0 a         12	tal pressure control - To Pump 1         10.0 s         Heat Exchanger A22 - KP         10           al pressure control - KP Pump 2         0.4         Heat Exchanger A22 - KP         100           ap ressure control - NP Pump 2         0.4         Heat Exchanger A22 - KP         100           ap ressure control - NP Pump 2         0.0         Mon Pum 2         100 a           ap ressure control - NP ump 2         0.0         Mon Pum 1         100 a           mprovalue Stationard Day Mode         0.0 °C         OF-Time Purge Fundon         1.0 min           n Return Flow         1.0         Mon Pum Time Purge Fundon         2.0 min           n Poly Limitation         1.0         Mon Pum Timese Pump 1         0.0 3.2%	sensitial pressure control - Tn Pump 1         10.0 s         Heat Exchanger A02 - KP         10.0 s           mential pressure control - VP Pump 2         0.4         Heat Exchanger A02 - KP         10.0 s           mential pressure control - VP Pump 2         0.4         Heat Exchanger A02 - KP         10.0 s           w Temperature Setpoint Day Mode         80.9 °C         OV Films Purge Function         1.0 mm           Refer Trave Lineton         1.0         Mn Frow Temperature Setpoint Day Mode         60.9 °C         OV Films Purge Function         1.0 mm           Refer Trave Lineton         1.0         Mn Frow Temperature Setzont Day Mode         60.0 °C         Time Nov Tempe         60.0 °C           M Temperature Max Value         60.0 °C         Time to open Flap HEX-A02         2.40 O s           M Changel of Me heat exchangers         166.0 m         Time backto aub         1.0 mm	sensitivity pressure control - Tin Timp 1         10.0 s         Heat Exchanger A02 - KP         10           sensitivity pressure control - Tin Young 2         10.0 s         Heat Exchanger A02 - KP         100.0 s           sensitivity pressure control - Tin Young 2         10.0 s         Heat Exchanger A02 - KP         100.0 s           F Emperature Steport Day Model         80.0 s °C         CVF. Time Purg F and/one         1.0 min           Refers Time Time         79.5 °C         CVF. Time Purg F indice         2.0 min           Refers Time Unit Steport Day Model         60.0 °C         Time Time Time Time         7.0 °C           Refers Time Unit Steport Day Model         60.0 °C         Time Time Time Time Time         7.0 °C         0.0 °C           Refers Time Unit Steport Day Model         60.0 °C         Time Time Time Time Time Time Time Time	ential pressure control - Tn Pump 1         10.9 s         Heat Exchanger A02 - KP         10.0 s           ential pressure control - KP Pump 2         0.4         Heat Exchanger A02 - KP         10.0 s           ential pressure control - TN Pump 2         0.4         Heat Exchanger A02 - KP         10.0 s           Temperature Setport Day Mode         00.0 °C         004 Time Purgs Function         1.0 min           mum Realm Flow Time.         75.9 °C         004 Time Purgs Function         1.0 min           Temperature Setport Day Mode         0.0 °C         004 Time Purgs Function         1.0 min           Temperature Nav Keise         0.0 °C         Time Purgs Function         0.0 °C           Temperature Nav Keise         0.0 °C         Time to open Fige HEX+402         2.40 0 s           Change of the heat exchangers         1.00 °C         Time back to aude         1.0 min	ntial pressure control - Tn Pump 1         10.9 s         Heat Exchanger A22 - NP         1.0           ntial pressure control - NP Pump 2         0.4         Heat Exchanger A22 - NP         1.00           ntial pressure control - NP Pump 2         0.4         Heat Exchanger A22 - NP         1.00           ntial pressure control - NP Pump 2         0.4         Heat Exchanger A22 - NP         1.00           ntial pressure control - NP Pump 2         0.4         Heat Exchanger A22 - NP         1.00           interpressore control - NP Pump 2         0.4         Heat Exchanger A22 - NP         1.00           interpressore control - NP Pump 2         0.4         0.4         1.00         1.00           interpressore control - NP Pump 2         0.00 °C         OFF.Trme Pump Exchanger A22 - NP         1.00         1.00           interpressore control - NP Pump 2         0.5 °C         OFF.Trme Pump Exchanger A22 - NP         0.00 °C         1.00         1.0	antial pressure control - Tn Pump 1         100 s         Haat Exchanger A02 - KP         100 s           ential pressure control - KP Pump 2         0.4         Heat Exchanger A02 - TN         100 s           ential pressure control - CP Pump 2         0.4         Heat Exchanger A02 - TN         100 s           femperature Serpoint Day-Mode         0.0 s         0.6 Time Purge Function         1.0 mm           num Return Prov Temp         75.0 °C         0FF. Time Purge Function         2.2 mm           num Return Prov Temp         1.0         Min Flow Temperature SackWed Purge         20.0 °C           Temperature Max Value         0.0 °C         Time to cene Flap HEX+A2         2.40 rs	Internatio pressure control - Tn Pump 1         10.0 s         Heat Exchanger AQ - XP         10.0 s           Internatio pressure control - XP Pump 2         0.4         Heat Exchanger AQ - XP         10.0 s           Internatio pressure control - XP Pump 2         0.4         Heat Exchanger AQ - XP         10.0 s           Internatio pressure control - XP Pump 2         0.0 s         International Pump 2         10.0 s           Internationary Stepping Day Mode         80.9 °C         OVE Time Purge Function         1.9 mm           Internationary Result of Control Pump 3         75.0 °C         OVE Time Purge Function         2.9 mm           Reference Pump 4         1.0         Min Pow Tenger is activated Pump 4         6.05 °C	sensitial pressure control - Tn Pump 1         10.0 s         Heat Exchanger AQ - KP         10.0           sensitial pressure control - KP Hump 2         0.4         Heat Exchanger AQ - KP         10.0           sensitial pressure control - KP Hump 2         0.4         Heat Exchanger AQ - KP         10.0           sensitial pressure control - KP Hump 2         0.0         Heat Exchanger AQ - KP         10.0           sensitial pressure control - KP Hump 2         0.0 s         Heat Exchanger AQ - KP         10.0           sensitial pressure control pressure control of KP Hump 2         0.0 s         Heat Exchanger AQ - KP         10.0           sensitian Sensition Filter Control pressure control of KP Hump 2         0.0 s         Heat Filter APH	Merchiki pressure control - To Tump 1         -0.0 a         Heat Exchangee AD2 - KP         10           Merchiki pressure control - KP Fung 2         -0.4         Heat Exchangee AD2 - KP         100.0 a           Merchiki pressure control - KP Fung 2         -0.4         Heat Exchangee AD2 - KP         100.0 a           Mini For Tum 2         -0.5 a         Heat Exchangee AD2 - KP         100.0 a           Mini For Tum 2         -0.5 a         Heat Exchangee AD2 - KP         10.0 a           Mini For Tum 2         -0.5 a         Heat Exchangee AD2 - KP         10.0 a           Mini For Tum 2         -0.5 a         Heat Exchangee AD2 - KP         10.0 a           Mini For Tum 2         -0.5 a         TO TUM 10 A         10.0 min           Mini For Tum 2         -0.5 a         CV Tim Purge Function         10.0 min				

Fig. 4: Overview of parameters on the TROVIS 6616 Web Terminal

#### **Plant visualization**

To transparently illustrate the processes that go on for the operators, TROVIS 6616 Web Terminals fitted with a touch screen are installed on site.

The web terminal has a 7" graphical touch screen with an Android-based operating system. On screen, all plant parameters can be adjusted, manual override is possible, and alarm messages can be checked. All logged data can additionally be shown in a historical trend graph. Unauthorized access is prevented by different, password-protected user levels. This is why a function that automatically signs out users after a certain period of inactivity is already preconfigured. To minimize the wiring required, the web terminal comes with a Power over Ethernet connection. Plants are entirely visualized according to customer specifications and the visualization is saved in the TROVIS 6610 CPU Module. As the web terminal also includes a fully fledged web browser, access to the TROVIS 6610 CPU Module website is possible in addition to plant visualization. This means that no computer is required on site to adjust or change plant settings or to configure alarm notification by e-mail or mobile text message, for example.

All in all, smart automation in heat generation plants enables systems to run efficiently. This helps reduce the operators' cost and get a return on the money invested into a new plant. For manufacturers, there is the opportunity to convince customers with tailor-made solutions as well as fortify their important role in implementing new energy policies. Thomas Hilbig, B.A., Product Management and Marketing, Instrumentation and Controls, SAMSON AG, Frankfurt am Main, Germany E-mail: thilbig@samson.de Phone: +49 69 4009-1744

# SMART IN FLOW CONTROL.



