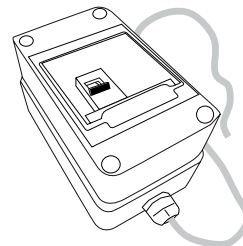


9. FAULTS REMOVAL


ATTENTION!


- Before you start a perform maintenance and repair works, the unit must be disconnected from the power source and the supply voltage locked, service switch in 0 position (off).
- Do not start repairs, if you are not sure of or do not know the exact procedure, and contact the specialized service!!!



TECHNICAL DATA


Defect is usually indicated by message on the display, see the table below.


ERROR NO:	04	Description:	Supply fan error	
Likely problem:		Overheated fan or defect on thermal contact of supply fan		
What to do / check:				
1	Check visually the supply ducting for any obstructions (all closing dampers, recirculation chamber, fire dampers, etc.)			
2	Check if there is power supply to the fan (check all fan fuses and measure voltage on the fan power supply)			
3	Check if fan connection is done well and according the wiring diagram. a. Fan monitoring by tacho output – check the tacho output connection to the electronic board, make sure it is done well (Supply fan: Module A – terminal 40) b. Fan monitoring by thermo contact – check the thermo contact connection to the electronic board, make sure it is done well (Supply fan: Module A – terminal 40-41)			
4	Check if fan connection is done well and according the wiring diagram Supply fan: Module A – terminal 41-42			
5	In service menu 1616 / 18-HW test open the closing dampers and set up 50% on supply fan, then measure DC voltage signal between terminals 41 and 42 (Supply fan) and check the measured airflow on the HW test screen			
6	Units with Comfort regulation – check the pipe connection of the flow alarm sensor, in case the unit does not detect at least 5Pa on the overpressure side of the supply fan it displays the error message			
7	If all steps has been done and fans still not working, it needs to be replaced			


ERROR NO:	05	Description:	Exhaust fan error	
Likely problem:		Overheated fan or defect on thermal contact of exhaust fan		
What to do / check:				
1	Check visually the exhaust ducting for any obstructions (all closing dampers, recirculation chamber, fire dampers, etc.)			
2	Check if there is power supply to the fan (check all fan fuses and measure voltage on the fan power supply)			
3	Check if fan connection is done well and according the wiring diagram <ul style="list-style-type: none">a. Fan monitoring by tacho output – check the tacho output connection to the electronic board, make sure it is done well (Extract fan: Module A – terminal 33)b. Fan monitoring by thermo contact – check the thermo contact connection to the electronic board, make sure it is done well (Extract fan: Module A – terminal 32-33)			
4	Check if fan connection is done well and according the wiring diagram Extract fan: Module A – terminal 31-32			
5	In service menu 1616 / 18-HW test open the closing dampers and set up 50% on supply fan, then measure DC voltage signal between terminals 41 and 42 (Supply fan) and check the measured airflow on the HW test screen			


9. FAULTS REMOVAL

6	Units with Comfort regulation – check the pipe connection of the flow alarm sensor, in case the unit does not detect at least 5Pa on the overpressure side of the supply fan it displays the error message
7	If all steps has been done and fans still not working, it needs to be replaced

ERROR No:	06	Description:	Clogged supply air filter	
Likely problem:		Clogged supply filter		
What to do / check:				
1	Replace the supply filter. Make sure the new filter is of the same type and the same filtration class as the one being replaced. If not, the filter calibration must be done (it takes cca 35min.)			
2	If you have a device with the time management of the filter clogging, you must reset the filter timer in the Service menu 1616 / 06-Filter timer			
3	Start the unit again			


ERROR NO:	07	Description:	Clogged extract filter	
Likely problem:		Clogged extract filter		
What to do / check:				
1	Replace the extract filter. Make sure the new filter is of the same type and the same filtration class as the one being replaced. If not, the filter calibration must be done (it takes cca 35min.)			
2	If you have a heat recovery unit with the time management of the filter clogging, you must reset the filter timer in the Service menu 1616 / 06-Filter timer			
3	Start the unit again			


ERROR NO:	08	Description:	Preheater 1 failure	
Likely problem:		Overheated electric pre-heater or non-functional thermostat or non-sufficient airflow		
What to do / check:				
1	Visual check of the heating elements			
2	Check by measurement the functionality of the solid state relays			
3	Check by measurement the functionality of the safety thermostat with automatic reset and then the functionality of the emergency thermostat			
4	If all above functional, check the supply ducting for any obstruction (e.g.: icing on the supply closing damper, etc.)			


ERROR NO:	09	Description:	Exchanger 1 failure	
Likely problem:		Overheated electric post-heater or non-functional thermostat or non-sufficient airflow		
What to do / check:				
1	Replace the extract filter. Make sure the new filter is of the same type and the same filtration class as the one being replaced. If not, the filter calibration must be done (it takes cca 35min.)			
2	If you have a heat recovery unit with the time management of the filter clogging, you must reset the filter timer in the Service menu 1616 / 06-Filter timer			
3	Check by measurement the functionality of the safety thermostat with automatic reset and then the functionality of the emergency thermostat			

9. FAULTS REMOVAL


4	Check the temperature sensors EXT2 and EXT3 - either the sensor is faulty or wrongly positioned. (Can be read out in the service menu 1616 / 18-HW test)
5	Start the unit again


ERROR No:	10	Description:	Exchanger 2 failure	
Likely problem:		Overheated electric post-heater or non-functional thermostat or non-sufficient airflow		
What to do / check:				
1	Visually check the heating elements			
2	Check by measurement the functionality of the regulation of the external post-heater and the functionality and correctness of the 0-10V signal from the electronic board (Module B – terminals 36-37)			
3	Check the functionality of the safety thermostat with automatic reset and then the functionality of the emergency thermostat inside of the external post-heater			
4	Check by measurement the temperature sensors EXT4 – either the sensor is faulty or wrongly positioned. (Can be read out in the service menu 1616 / 18-HW test)			
5	If all above functional, check the supply ducting for any obstructions (e.g.: icing on the supply closing damper, etc.)			


ERROR NO:	11	Description:	Preheater 2 failure	
Likely problem:		Overheated external electric pre-heater or non-functional thermostat or non-sufficient airflow		
What to do / check:				
1	Visually check the heating elements			
2	Check by measurement the functionality of the regulation of the external post-heater and the functionality and correctness of the 0-10V signal from the electronic board (Module B – terminals 36-37)			
3	Check the functionality of the safety thermostat with automatic reset and then the functionality of the emergency thermostat inside of the external post-heater			
4	If all above functional, check the supply ducting for any obstructions (e.g.: icing on the supply closing damper, etc.)			

ERROR No:	12	Description:	CO2 sensor failure	
Likely problem:		Defective air quality sensor		
What to do / check:				
1	Check the sensor's connection to the electronic board – Module A, terminals 43-44			
2	Check the output signal 0-10V from the sensor			
3	Check the device set up – the right selection of the air quality sensor in the Service menu 1616 / 08-AQS sensor and the correct setting of the air quality sensor limits			
4	Check the setting of the time schedule modes that there is not selected automatic mode in case the quality sensor is not physically connected. In such case, delete the particular time schedule and set it up again			

9. FAULTS REMOVAL


ERROR NO:	13	Description:	Rotary recuperator error	
Likely problem:		Failure of the rotary heat recovery exchanger		
What to do / check:				
1	Check visually that the belt is unbroken			
2	Check that the wheel can be turned around manually and it is not stuck			
3	Check the rotary wheel input connection (Module A – Error input 34)			
4	Check the functionality of the rotation control sensor – the sensor must react (a short flash) on the magnetic contact when the wheel makes a complete turn			


ERROR NO:	14	Description:	ADB error	
Likely problem:		Failure of adiabatic module		
What to do / check:				
1	Check the adiabatic error input connection (Module B – Error input 9-10)			
2	Check the adiabatic module is selected in Service menu 1616 / 03-Accessories			
3	Check what type of error the adiabatic module is indicating			


ERROR NO:	15	Description:	Heat pump error	
Likely problem:		Heat pump failure		
What to do / check:				
1	Check the Heat pump input error connection (Module B – Error input 13-14)			
2	Check the Heat pump is selected in Service menu 1616 / 07-Exchangers			
3	Check what type of error the heat pump is indicating			


ERROR NO:	16	Description:	Supply – outside temperature sensor failure (T-EXT1)
Likely problem:		<i>Outside temperature sensor failure; This failure is understood as a less serious therefore the device continues to operate but with temperature default value, some regimes might be limited</i>	
What to do / check:			
1	EXT1 default value is 0°C; FREECOOLING will not operate		
2	Check the sensor's connection to the electronic board – Module A, terminals 45-46		
3	If the connection ok and the fault persists, replace the sensor		

9. FAULTS REMOVAL


ERROR NO:	17	Description:	Supply – outside temperature sensor failure (T-EXT2)	
Likely problem:		<i>Outside temperature sensor failure; This failure is understood as a less serious therefor the device continues to operate but with temperature default value, some regimes might be limited</i>		
What to do / check:				
1	EXT1 default value is 0°C; FREECOOLING will not operate			
2	Check the sensor's connection to the electronic board – Module A, terminals 45-46			
3	If the connection ok and the fault persists, replace the sensor			


ERROR NO:	18	Description:	Supply – outside temperature sensor failure (T-EXT3)	
Likely problem:		<i>Outside temperature sensor failure This failure is understood as a less serious therefor the device continues to operate but with temperature default value, some regimes might be limited</i>		
What to do / check:				
1	EXT3 default value is 4°C; Anti-freeze protection is still active; Electric post-heater is forbidden; Duct minimum/maximum is not being watched;			
2	Check the sensor's connection to the electronic board – Module A, terminals 49-50			
3	If the connection ok and the fault persists, replace the sensor			


ERROR NO:	19	Description:	Supply – outside temperature sensor failure (T-EXT4)	
Likely problem:		<i>Outside temperature sensor failure This failure is understood as a less serious therefor the device continues to operate but with temperature default value, some regimes might be limited</i>		
What to do / check:				
1	EXT4 default value is 4°C; Anti-freeze protection is still active; Electric post-heater is forbidden; Duct minimum/maximum is not being watched;			
2	Check the sensor's connection to the electronic board – Module B, terminals 46-47			
3	If the connection ok and the fault persists, replace the sensor			


ERROR NO:	20	Description:	Extract – return duct temperature sensor failure (T-INT0)	
Likely problem:		<i>Return duct temperature sensor failure This failure is understood as a less serious therefor the device continues to operate but with temperature default value, some regimes might be limited</i>		
What to do / check:				
1	INT0 default value is 20°C; FREECOOLING will not operate; In case in service menu (1616) selected in 09-Temperature sensor “Extract duct”, the device would heat up the duct minimum according the Supply temperature sensor			
2	Check the sensor’s connection to the electronic board – Module B, terminals 44-45			
3	If the connection ok and the fault persists, replace the sensor			

9. FAULTS REMOVAL


ERROR NO:	21	Description:	Extract – return duct temperature sensor failure (T-INT1)	
<i>Likely problem:</i>		<i>Outside temperature sensor failure This failure is understood as a less serious therefor the device continues to operate but with temperature default value, some regimes might be limited</i>		
What to do / check:				
1	INT1 default value is 20°C; FREECOOLING will not operate; In case in service menu (1616) selected in 09-Temperature sensor “Extract duct”, the device would heat up the duct minimum according the Supply temperature sensor			
2	Check the sensor's connection to the electronic board – Module A, terminals 51-52			
3	If the connection ok and the fault persists, replace the sensor			


ERROR NO:	22	Description:	Extract – return duct temperature sensor failure (T-INT2)	
<i>Likely problem:</i>		<i>Return duct temperature sensor failure This failure is understood as a less serious therefore the device continues to operate but with temperature default value, some regimes might be limited</i>		
What to do / check:				
1	INT2 default value is 4°C; The antifreeze protection of the heat recovery core is not functional			
2	Check the sensor's connection to the electronic board – Module A, terminals 53-54			
3	If the connection ok and the fault persists, replace the sensor			


ERROR No:	23	Description:	Water inlet sensor failure (T_WATER_IN)	
Likely problem:		<i>Inlet water temperature sensor failure This failure is understood as a less serious therefor the device continues to operate but with temperature default value, some regimes might be limited</i>		
What to do / check:				
1	WAT_IN default value is 22°C <ol style="list-style-type: none">Being sensed only for devices with Change-Over coil (WCO)In case heating by WCO required, for air temperature control the algorithm calculation uses the data from the previous WCO regime; when device switched OFF and ON again, it does not heat nor cool			
2	Check the sensor's connection to the electronic board – Module B, terminals 42-43			
3	If the connection ok and the fault persists, replace the sensor			


ERROR NO:	24	Description:	Water outlet sensor failure (T_WATER_OUT)	
Likely problem:		<i>Outlet water temperature sensor failure This failure is understood as a less serious therefor the device continues to operate but with temperature default value, some regimes might be limited</i>		
What to do / check:				
1	WAT_OUT default value is 4°C Sensed only for device with LPHW coil (heating only) In case the device (when switched On) enters mode “Waiting for hot water”, the mode will not be abandoned thanks to the default temperature (pump running, SMU opened, dampers shut, fans stopped)			
2	Check the sensor’s connection to the electronic board – Module B, terminals 40-41			
3	If the connection ok and the fault persists, replace the sensor			

9. FAULTS REMOVAL

ERROR No:	25	Description:	Room sensor failure (T_Room)	
<i>Likely problem:</i>		<i>Room temperature sensor failure This failure is understood as a less serious therefore the device continues to operate but with temperature default value, some regimes might be limited</i>		
What to do / check:				
1	T-ROOM default value is 20°C In case in service menu (1616) selected in 09-Temperature sensor "Room", the device would heat up the duct minimum according the Supply temperature sensor EXT-3 (EXT-4)			
2	Check the sensor's connection to the electronic board – Module A, terminals 55-56			
3	If the connection ok and the fault persists, replace the sensor			


ERROR No:	26	Description:	Press sensor extract air filter failure	
Likely problem:		Extract air filter pressure sensor failure		
What to do / check:				
1	If the signal LED is NOT flashing on the F module, check the correct connection of the I-BUS cable (in such case, all pressure sensors are in failure)			
2	If the signal LED is flashing on the F module and all pressure sensors are in failure, check the correct connection of the I-BUS cable or functionality of the I-BUS cable itself			
3	If the signal LED is flashing on the F module and there is only one pressure sensor failure (not all of them), the F module must be replaced			
4	If the device is equipped with C module, first check the signal LED is flashing and then that correct addressing of the BCD selector – for extract air filter pressor sensor it is address 1			
5	If the device is equipped with C module and there is pressor sensor failure on more than one, check the correct addressing on all of the pressure sensors (see correct addressing at Errors 26-31)			


ERROR NO:	27	Description:	Press sensor supply air filter failure	
Likely problem:		Supply air filter pressure sensor failure		
What to do / check:				
1	If the signal LED is NOT flashing on the F module, check the correct connection of the I-BUS cable (in such case, all pressure sensors are in failure)			
2	If the signal LED is flashing on the F module and all pressure sensors are in failure, check the correct connection of the I-BUS cable or functionality of the I-BUS cable itself			
3	If the signal LED is flashing on the F module and there is only one pressure sensor failure (not all of them), the F module must be replaced			
4	If the device is equipped with C module, first check the signal LED is flashing and then correct addressing of the BCD selector – for supply air filter pressor sensor it is address 0			
5	If the device is equipped with C module and there is pressor sensor failure on more than one, check the correct addressing on all of the pressure sensors (see correct addressing at Errors 26-31)			


ERROR NO:	28	Description:	Press sensor supply fan failure	
Likely problem:		Supply fan pressure sensor failure		
What to do / check:				
1	If the signal LED is NOT flashing on the F module, check the correct connection of the I-BUS cable (in such case, all pressure sensors are in failure)			
2	If the signal LED is flashing on the F module and all pressure sensors are in failure, check the correct connection of the I-BUS cable or functionality of the I-BUS cable itself			

9. FAULTS REMOVAL


3	If the signal LED is flashing on the F module and there is only one pressure sensor failure (not all of them), the F module must be replaced
4	If the device is equipped with C module, first check the signal LED is flashing and then correct addressing of the BCD selector – for supply fan pressor sensor it is address 2
5	If the device is equipped with C module and there is pressor sensor failure on more than one, check the correct addressing on all of the pressure sensors (see correct addressing at Errors 26-31)


ERROR No:	29	Description:	Press sensor extract fan failure	
<i>Likely problem:</i>		<i>Extract fan pressure sensor failure</i>		
What to do / check:				
1	If the signal LED is NOT flashing on the F module, check the correct connection of the I-BUS cable (in such case, all pressure sensors are in failure)			
2	If the signal LED is flashing on the F module and all pressure sensors are in failure, check the correct connection of the I-BUS cable or functionality of the I-BUS cable itself			
3	If the signal LED is flashing on the F module and there is only one pressure sensor failure (not all of them), the F module must be replaced			
4	If the device is equipped with C module, first check the signal LED is flashing and then correct addressing of the BCD selector – for extract fan pressor sensor it is address 3			
5	If the device is equipped with C module and there is pressor sensor failure on more than one, check the correct addressing on all of the pressure sensors (see correct addressing at Errors 26-31)			


ERROR No:	30	Description:	Press sensor VAV duct failure	
Likely problem:		VAV duct pressor sensor failure		
What to do / check:				
1	If the signal LED is NOT flashing on the F module, check the correct connection of the I-BUS cable (in such case, all pressure sensors are in failure)			
2	If the signal LED is flashing on the F module and all pressure sensors are in failure, check the correct connection of the I-BUS cable or functionality of the I-BUS cable itself			
3	If the signal LED is flashing on the F module and there is only one pressure sensor failure (not all of them), the F module must be replaced			
4	If the device is equipped with C module, first check the signal LED is flashing and then correct addressing of the BCD selector – for VAV duct pressor sensor it is address 4			
5	If the device is equipped with C module and there is pressor sensor failure on more than one, check the correct addressing on all of the pressure sensors (see correct addressing at Errors 26-31)			


ERROR No:	31	Description:	Press sensor C4/PCO failure	
Likely problem:		C4/PCO pressure sensor failure		
What to do / check:				
1	If the signal LED is NOT flashing on the F module, check the correct connection of the I-BUS cable (in such case, all pressure sensors are in failure)			
2	If the signal LED is flashing on the F module and all pressure sensors are in failure, check the correct connection of the I-BUS cable or functionality of the I-BUS cable itself			
3	If the signal LED is flashing on the F module and there is only one pressure sensor failure (not all of them), the F module must be replaced			
4	If the device is equipped with C module, first check the signal LED is flashing and then correct addressing of the BCD selector – for C4/PCO pressor sensor it is address 5			
5	If the device is equipped with C module and there is pressor sensor failure on more than one, check the correct addressing on all of the pressure sensors (see correct addressing at Errors 26-31)			

9. FAULTS REMOVAL


ERROR NO:	32	Description:	Sensor AQS failure	
Likely problem:		Defective air quality sensor		
What to do / check:				
1	Check the sensor's connection to the electronic board – Module A, terminals 43-44 In case of AQS sensor location in SLAVE single-flow unit – module K, terminals 10-11			
2	Check that the AQS sensor is well connected			
3	Check the device set up – the right selection of the air quality sensor in the Service menu 1616 / 08-AQS sensor and the correct set up of the air quality sensor limits			
4	Check the setting of the time schedule modes that there is not selected automatic mode in case the quality sensor is not physically connected. In such case, delete the particular time schedule and set up it again.			


ERROR NO:	36	Description:	B module error	
Likely problem:		Faulty B module or faulty connection of the B module		
What to do / check:				
1	If the signal LED is NOT flashing on the B module, check the correct connection of the I-BUS cables			
2	If the signal LED is flashing on the B module and it is in failure, check the correct connection of the I-BUS cable or the functionality of the I-BUS cable itself			
3	If the signal LED is flashing on the B module and the connection is faultless, the module B is faulty and needs to be replaced			


ERROR NO:	37	Description:	Condensation drain overflow	
Likely problem:		The condensation tray might be over-floated		
What to do / check:				
1	Check if the condensation drain is not filled up over the limit (in case the condensation is monitored), if so make sure there is free drainage of the condensate			
2	In case the condensation tray is empty and the over-floating is monitored check the connection of the condensate terminals – module B, terminal 17-18 and the functionality of the float (that it is not stuck)			
3	In case more than one condensation trays are used in the unit, you must check the functionality and the connection on all of them.			
4	In case the condensation is not monitored, check that there is a bridge connection on module B, terminals 17-18			


	ERROR NO:	38	Description:	G module Error	
	Likely problem:		Faulty G module or faulty connection of the G module		
	What to do / check:				
1	If the signal LED is NOT flashing on the G module, check the correct connection of the I-BUS cables				
2	If the signal LED is flashing on the G module and it is in failure, check the correct connection of the I-BUS cable or the functionality of the I-BUS cable itself				
3	If the signal LED is flashing on the G module and the connection is faultless, the module G is faulty and needs to be replaced				


9. FAULTS REMOVAL

ERROR NO:	39	Description:	Global Error	
Likely problem:		This error indicates that there has been any error detected. It is always followed by another error message, which specify the particular defect.		
What to do / check:				
1	Follow the instructions how to solve and remove the particular defect			


ERROR NO:	40	Description:	K module Error	
Likely problem:		Faulty K module, faulty connection of the K module or no power supply to the slave unit		
What to do / check:				
1	First check there is a power supply to the slave unit			
2	If the signal LED is NOT flashing on the K module, check the correct connection of the I-BUS cable on K module, G-lite and module A			
3	If the signal LED is flashing on the K module and it is in failure, check the correct connection of the I-BUS cable or the functionality of the I-BUS cable itself			
4	If the signal LED is flashing on the K module and the connection is faultless, the module K is faulty and needs to be replaced			


ERROR NO:	41	Description:	Flow sensor Error	
Likely problem:		Failure of the flow sensor		
What to do / check:				
1	1. Check the signal LED is flashing on the sensor and then correct addressing of the BCD selector –address E			
2	2. If the device is equipped with other C modules check the correct addressing on all of the pressure sensors (see correct addressing at Errors 26-27)			

ERROR NO:	42	Description:	Press sensor HEPA air filter failure	
Likely problem:		Failure of the HEPA air filter pressure sensor		
What to do / check:				
1	Check the signal LED is flashing on the sensor and then that there is correct addressing of the BCD selector –address 7			
2	If the device is equipped with other C modules check the correct addressing on all of the pressure sensors (see correct addressing at Errors 26-31)			


ERROR NO:	43	Description:	Clogged HEPA air filter	
<i>Likely problem:</i>		<i>Clogged HEPA air filter</i>		
What to do / check:				
1	1. Replace the HEPA filter. Make sure the new filter is of the same type and the same filtration class as the one being replaced. If not, the filter calibration must be done (it takes cca 35min.)			
2	2. Start the unit again			


9. FAULTS REMOVAL


ERROR NO:	63	Description:	Room BMS temperature sensor failure	
Likely problem:		Not available room temperature reading from BMS		
What to do / check:				
1	Check if there is on BMS address 23000 available information about the room temperature			
2	Make sure there is sufficient frequency of sending the Room BMS temperature value to the address 23000			

ERROR No:	64	Description:	Flow alarm sensor failure	
Likely problem:		Failure of the flow sensor		
What to do / check:				
1	Check the signal LED is flashing on the sensor and then that there is correct addressing of the BCD selector –address E			
2	If the device is equipped with other C modules check the correct addressing on all of the pressure sensors (see correct addressing at Errors 26-27)			

10. Warning messages

ERROR No:	50	Description:	Supply air filter clogged > 80%	
Likely problem:		The supply air filter would need to be replaced soon.		
What to do / check:				
1	Order a new supply filter and replace it			

ERROR NO:	51	Description:	Extract air filter clogged > 80%	
Likely problem:		The extract air filter would need to be replaced soon.		
What to do / check:				
1	Order a new extract filter and replace it			


ERROR No:	53	Description:	Extract air filter clogged > 80%	
Likely problem:		The HEPA air filter would need to be replaced soon		
What to do / check:				
1	Order a new HEPA filter and replace it			

11. Info messages

ERROR NO:	1	Description:	Request filters calibration – service menu
Status description:		When the device is in operation for the first time, it informs that the filter calibration should be done	
Beware of:			
1	In case the filter calibration is not done, it evaluates the filters according the default curve, which might not correspond with the used filters. Clogged filters measurement would be inaccurate		


ERROR No:	70	Description:	Water heater antifreeze protection
Status description:		The antifreeze protection could be active only for device with water coil heater	
Beware of:			
1	The antifreeze protection activates following actions: a. Water armature fully opened b. Pump switched on c. Fans switched off d. Supply and exhaust dampers are closed e. Rotating wheel is switched off f. Optionally (service menu 1616/02-HW setting) the extract fan can stay On; in such case, the exhaust damper stays open and rotating wheel runs at minimal speed		


ERROR NO:	71	Description:	Water heater waiting for hot water
Status description:		Checking the return water temperature	
Beware of:			
1	Only for devices with water heater (LPHW or WCO coil)		
2	The device, during its start-up, is checking the return water temperature to make sure there is no danger of the water coil freezing; during this period, the pump is on, mixing point is being opened step by step and the dampers are closed, regeneration wheel is off, fans are off; The device would not start to operate sooner than the temperature on water return reaches at least 20°C		

ERROR NO:	72	Description:	Water heater waiting for supply air temperature	
Status description:		Checking the supply air temperature, so called "Soft-start"		
Beware of:				
1	Only for devices with water heater (LPHW or WCO coil)			
2	This follows the "Water heater waiting for hot water"			
3	The dampers get open, fans on minimal speed, pump is running, mixing point fully opened, regeneration wheel is on			
4	As soon as temperature EXT3 gets to 20°C the device switches the pre-set mode			
5	In case EXT3 does not reach 20°C and the duct minimal temperature is not reached within 5mins the device start -up anyway, if during this process the return water temperature gets below 15°C the device switches back to "Water heater waiting for hot water" process.			

11. Info messages


ERROR NO:	73	Description:	WCO/WC searching inlet water temp (cold/hot)
Status description:		Applicable for a device with integrated or external Change-Over coil; the device measures the inlet water temperature to find out whether the water armature should regulate in cooling or heating mode	
Beware of:			
1	Temperature test runs for 2mins		
2	Test is run always when the water armature is open for at least 30% and is repeated every 60 minutes; first test is run when the device is switched on		

ERROR NO:	74	Description:	Air flow reduction, minimal duct temperature not reached	
Status description:		The duct temperature reached minimal acceptable value and the airflow is linearly reduced		
Beware of:				
1	The airflow is linearly reduced in the interval from the pre-set minimal temperature down to +5°C			

	ERROR NO:	75	Description:	Passive house protection	
	Status description:		The minimal duct temperature got below +5°C and the device has been switched Off		
	Beware of:				
1	If the device has been switched Off as the duct temperature dropped below +5°C , the device tries every 15mins automatically to switch On again and to reach minimal duct temperature				

ERROR NO:	76	Description:	Heat pump Defrosting
Status description:		Defrosting sequence on the outdoor unit of the heat pump has been activated	
Beware of:			
1	When the defrosting sequence on the outdoor unit of the heat pump is being activated, the control gives no demand for heat pump output and runs the fans on the minimal speed; when the defrosting sequenced finished the device returns to normal mode		

ERROR No:	78	Description:	Pre-freecooling active
Status description:		Being activated during the time period for which FREECOOLING is permitted (service menu 1616 / 16-Freecooling)	
Beware of:			
1	The device is switched on into the pre-set mode (Manual, CAV, DCV, PCO) every hour for 10 mins to check the inside and outside temperatures and to find out whether the conditions for FREECOOLING have been reached, if so, the device would switch into the FREECOOLING mode, if not the device would switch itself off		

ERROR NO:	79	Description:	Heater was reduced/ due to low airflow	
Status description:		The duct temperature crossed +50°C therefore the electric heater output was changed to 0%, PID regulator carries on to evaluate requested output		
Beware of:				
1	When the duct temperature drops below +50°C the heater output is activated for the requested temp.			