



euroclima
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Name Venti Date 23-01-2023 - 08:44

Offer 23/0028
Position 002
50m olympic pool

Project

Drawing 002 [Pcs] 2
Date 10-01-2023

Client

Street

Client request no

Revision 1 30-11-2010

Execution Indoor Unit
Weight [kg] 5.448
specific fan power [W/(m³/s)] 1933
EU 1253/2014 compliance 2018 OK



TECHNICAL DATA

ZHK Inova

Supply air	Size: 24/15	Weight: 4134 [kg]	Surface: 1,4 [m2]	Velocity: 2,33 [m/s]	
design	L-TF-PT-RFC-V-L-H-FR	Dimensions [mm]	L: 472,5	W: 2.540	H: 1.775
Air volume [m³/h]	2.000	Panel inside	50 [mm]	White A47SME	1,00 mm
external pressure drop [Pa]	300	Panel inside bottom		White A47SME	
total pressure drop [Pa]	719	Guides		galvanized steel	
Specific fan power [W/(m³/s)]	961	Panel outside		White A47SME	0,70 mm
Exhaust air	Size: 24/12	Weight: 1314 [kg]	Surface: 25,0 [m2]	Velocity: 2,33 [m/s]	
design	TF-VF-PT-K-L-M1	Dimensions [mm]	L: 6.252,5	W: 2.540	H: 1.470
Air volume [m³/h]	25.000	Panel inside	50 [mm]	White A47SME	1,00 mm
external pressure drop [Pa]	300	Panel inside bottom		White A47SME	
total pressure drop [Pa]	724	Guides		galvanized steel	
Specific fan power [W/(m³/s)]	972	Panel outside		White A47SME	0,70 mm
Supply air					
L Empty section		305,0 [mm]	2,23 [m2]	122,00 [kg]	0 [Pa]
Opening:	7 Full opening	Dimensions [mm] 2.380,0 x 1.160,0			
(23) Damper		Frame	AL	seal lip	Yes
torque [Nm]	19,1	Blades	AL	Blade drive	Gearwheels , PPGF
Axle	1	drive type	actuator, in air dir. right		
C-connection frame	galvanized steel				[Pa]
Manufacture	BELIMO	Mode	modulating		Volt [V] 1x24
Type	1 x SM24A-SR	Torque / pcs [Nm]	20,000		Protection IP54
Spring return	No	with extra auxiliary contac	No		
TF Bag Filter		457,5 [mm]	3,35 [m2]	208,00 [kg]	52 [Pa]
Manufacture	Camfil		Filter surface [m2]	136,00	
Type	OPAKFIL-ES-F7 tmax.=70°C		Cells pcs x size [mm]	8 x 592,0 x 592,0	
Init.-Dim.-Fin. press. drop [Pa]	26-52-78		rigid bag filter		
Class ISO 16890	ePM1 60%		Guide galvanized coated (side removable center lock)		
Airflow [m³/h]	7.500		Final pressure drop acc. EN 13053		
Bag length [mm]	296,0				
Filter energy class (EN 779:2012)	A+				
Filter media type	Fiber Glass				
Standard hinged door	ZIS	Access side: right	Dimensions [mm]		457,5 x 1.220,0 [-L]
(300)	1 Pcs	Door lock			
(178)	1 set	Pressure test points mounted			



Offer	23/0028	Pieces	2
Drawing	002	Rev. Nr.	1
Position	002	Rev. date	30-11-2010
Unit	50m olympic pool		

L	Empty section	762,5 [mm]	4,75 [m2]	199,00 [kg]	27 [Pa]
	Standard hinged door ZIS Access side: right	Dimensions [mm]		610,0 x 1.067,5 -[R]	
	(300) 1 Pcs Door lock				
	Opening: 4 Bottom				
	(23) Damper	Frame	AL	seal lip	Yes 27 [Pa]
	torque [Nm] 5,7	Blades	AL	Blade drive	Gearwheels , PPGF
	Axle 1	drive type	actuator, in air dir. right		
	Manufacture BELIMO	Mode	modulating		Volt [V] 1x24
	Type 1 x NM24A-SR	Torque / pcs [Nm]	10,000		Protection IP54
	Spring return No	with extra auxiliary contac	No		
PT	Plate exchanger - diagonal	2.745,0 [mm]	29,84 [m2]	1.763,00 [kg]	178 [Pa]
	Type PCF-I-3-248-2120-GE-B-315-C-CL-R	max. allowed pressure difference			1700 [Pa]
	With bypass 315 [mm]	Plate heat exchanger epoxy coat	Density [kg/m ³] 1,10		
	Water condition	Cooling condition			
	Supply [m ³ /h] 5.000	air-side humid p.d. [Pa]	Supply [m ³ /h]	air-side humid p.d. [Pa]	
	Entering [°C] 29,00	Humidity [%] 83,0	Entering [°C]	Humidity [%]	
	Leaving [°C] 26,00	Humidity [%] 47,0	Leaving [°C]	Humidity [%]	
	exhaust [m ³ /h] 25.000	air-side humid p.d. [Pa]	exhaust [m ³ /h]	air-side humid p.d. [Pa]	
	Entering [°C] 29,00	Humidity [%] 58,0	Entering [°C]	Humidity [%]	
	Leaving [°C] 20,00	Humidity [%] 98,0	Leaving [°C]	Humidity [%]	
	Temperature efficiency (project data) [%]	78,3	Temperature efficiency (project data) [%]		
	Temperature efficiency (EUROVENT) [%]	78,0			
	Effectiveness AHRI (1061-2013-C1) [%]	78,3	Effectiveness AHRI (1061-2013-C1) [%]		
	condense water qty. [l/h]	4,08	condense water qty. [l/h]		
	Recovery capacity [kW]	79,09	Recovery capacity [kW]		
	Standard pressuredrop (supply/exhaust)	178 / 178 [Pa]			
	Efficiency values refer to supply air side				
	Attention: Please respect the maximal allowed pressure difference as above. Electrical Pressure control necessary. Respect: INSTRUCTION MANUAL				
	(0) 1 Pcs PHE for POOL application				
	Standard hinged door ZIS Access side: right	Dimensions [mm]		457,5 x 1.525,0 -[R]	
	(300) 1 Pcs Door lock				
	Drain pan	GI - H: 30,0 mm - Inclined centre	Size	2.745,0x2.440,0 Ø1 1/4"-R not threaded	
	Bypass-dampers	drive type	Suitable for actuator	External	
	Electrical Panel, incl. filter and cover			Pos. and dim. Indicative	
	B x H x T [mm]	1000 x 1400 x 300		supplied loose	
	Manufacture BELIMO	Mode	modulating		Volt [V] 1x24
	Type 1 x SM24A-SR	Torque / pcs [Nm]	20,000		Protection IP54
	Spring return No	with extra auxiliary contac	No		
	(178) 2 set Pressure test points mounted				



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RFC Refrigerant circuit section	1.220,0 [mm]	8,49 [m2]	790,00 [kg]	0 [Pa]
total cooling capacity	73,010			
total absorbed capacity	18,880			
total system capacity	91,890	Classification PED		Class II
Seperate cooling circuits	1	Temperature min. [°C]		-20
Compressor qta. [Pcs]	1	Temperature max. [°C]		+ 80
Refrigerant	R410A	Max. pressure HD [bar]		21,0
compressor type	Scroll Hermetic	Max. pressure ND [bar]		21
Compressor name	Copeland/ZP295 KCE-TWD-522	Oil qta. [kg]		6,80
Cooling capacity [kW]	73,01	Hub volume [m³/h]		46,70
Condensing capacity [kW]	91,890	Electric absorbed current [A]		33,27
Power input [kW]	18,880	Max work current [A]		48,00
COP	4,87	Winding Type		400V Y
		Mass flow [kg/h]		14.968
Standard hinged door	ZIS	Access side: right	Dimensions [mm]	0,0 x 1.372,5 [L]
(30) 1 Pcs	Door lock			
Opening:	3	Top opening		
(3) Damper		Frame	AL	seal
		Blades	AL	Blade drive
		torque [Nm]	7,7	Blade drive
		Axle	1	drive type
				actuator, in air dir. right
Manufacture	BELIMO	Mode	modulating	Volt [V]
Type	1 x NM24A-SR	Torque / pcs [Nm]	10,000	Protection
Spring return	No	with extra auxiliary contac	No	
(2049) 1 Pcs	Actuator support for internal damper Aluminium			
VF Supply air-Plug fan	915,0 [mm]	7,25 [m2]	447,00 [kg]	17 [Pa]
Fan	2 x ebmpapst/K3G560-PC04-32/ 3x400V	EC-Motor	2 x	M3G150NA
Air volume [m³/h] (density: [kg/m³] 1,20)	2 x 12.500,00	Protection		IP54
External press [Pa]	300	Insulation class		F
ext. press. on intake / outlet [Pa]	-150 / 150	Nominal power [kW]	2 x	5,000
dyn.press.drop [Pa]	64	Speed +-2% [1/min]		1.760
Tot. pressure [Pa]	719	Current +-5% [A]	2 x	7,70
Speed [1/min]	1.544	Voltage [V]		3x400 / 50/60 Hz
sound power [dB(A)]	90,8	Tension Range [V]		380 ... 480
System efficiency [%]	65,6	Electric absorbed power [kW]	2 x	3,47
max. nom. RPM [1/min]	1.760	Motor efficiency class	analog to IEC60034: IE 5	
Calibration faktor K_A [m²s/h]	269	Control voltage [V]		7,4
Speed control:	variable speed	Connection diagram		M3 (RP1)
shaft capacity [kW]	2 x 3,12			
Fan octave band sound power level L _{okt} / dB		fan connection :		rubber sealing
Frq. [Hz]	63 125 250 500 1000 2000 4000 8000	Temperature increase fan section [°C]		0,80
Inlet	67,0 79,8 78,9 74,9 76,1 75,5 82,0 71,1	No frequency converter needed!		
Outlet	75,7 81,8 79,7 84,5 84,6 80,0 83,6 74,9			
(30) 1 Pcs	Pressure tapping on fan inlet cone			
(3154) Pcs	Fan anti-corrosion protection			
(53) 1 set	Gland for power cable 2 x M20 / signal cable glands 2 x M20			
(47) set	Motor precabeled			
Standard hinged door	ZIS	Access side: right	Dimensions [mm]	610,0 x 1.525,0 [-L]
(300) 1 Pcs	Door lock			
(178) 1 set	Pressure test points mounted			
L Empty section	305,0 [mm]	2,41 [m2]	103,00 [kg]	0 [Pa]



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Pieces 2
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H Heating coil	305,0 [mm]	2,41 [m2]	227,00 [kg]	42 [Pa]						
Airflow [m³/h] 25.000 Density [kg/m³] 1,20	Medium	R410A								
air velocity [m/s] 1,87	Content [l]	38,500								
Air in [°C] 26,40	Condensing temp. [°C]	47,00								
Air out [°C] 37,08	Pressure drop [kPa]	0,13								
Capacity [kW] 91,89	Max press. [bar]	21								
Air press. Drop [Pa] 42										
30x26-COND/2pa/3R-48T-2196L-18N/V1/CU-IN54x2,0mm-OUT35x1,5mm/CU-ALB-AI/LT2431-HT1510-C130-90GL										
nos. of rows 3	Connection side	right								
nos. of refr.circuits	Fins	ALP								
Fin spacing [mm] 2,00	Tubes	CU Not threaded								
Connection in 54x2,0mm	Header	CU								
	Frames	AL								
Removable panel ZIB	Access side: right	Dimensions [mm] 305,0 x 1.525,0								
H Heating coil	305,0 [mm]	2,41 [m2]	194,00 [kg]	37 [Pa]						
Airflow [m³/h] 25.000 Density [kg/m³] 1,20	Medium	Water								
air velocity [m/s] 1,87	Med. flow [l/s]	1,4300 Content 2,1 l								
Air in [°C] 25,20	Med. velocity [m/s]	0,55								
Air out [°C] 39,00	Med. in [°C]	60,00								
Air press. Drop [Pa] 37	Med. out [°C]	40,00								
Capacity [kW] 117,44	Med. pres. drop [kPa]	14,41								
30x26-AC/2,5pa/3R-48T-2256L-24N/V1/CU-GW-1 1/4"/CU-ALB-AI/LT2431-HT1510-C120										
nos. of rows 3 Max press. [bar] 21	Connection side	right								
nos. of circuits 24	Fins	ALP								
Fin spacing [mm] 2,50	Tubes	CU								
Connection in 1 1/4" threaded	Header	CU								
Connection out 1 1/4" threaded	Frames	AL								
Manufacture BELIMO 3-way valve	Connection	threaded								
Type 1 x R3032-16-S3 NRC24A-SR	KVS	16,00								
		Volt [V] 1x24								
		Protection IP54								
FR Anti frost frame	152,5 [mm]	1,21 [m2]	81,00 [kg]	2 [Pa]						
(160) 1 Pcs Antifreeze thermostat fitted on the frame (12m)										
(162) 1 Pcs Anti frost frame galvanized										
Removable panel ZIB	Access side: right	Dimensions [mm] 152,5 x 1.525,0								
Opening: 7 Full opening	Dimensions [mm] 2.380,0 x 1.465,0									
C-connection frame galvanized steel				2 [Pa]						
AHU sound levels	ME	63	125	250	500	1000	2000	4000	8000	Tot dB(A)
1> Airborne SWL over casing [dB]		64,5	64,1	53,8	56,9	55,4	50,4	51,7	43,2	60,1
2> SWL at air inlet [dB]		59,2	75,8	71,9	66,9	69,1	66,5	71,0	58,1	75,5
3> SWL at air outlet [dB]		73,7	79,8	77,7	84,5	82,6	76,0	77,6	72,9	86,7
4> Sound press. for 1 [m] distance from AHU		44,9	44,5	34,2	37,3	35,8	30,8	32,1	23,6	40,5
5> Sound press. for 1 [m] distance from air inlet		51,8	69,1	65,9	61,4	63,8	61,3	66,1	53,2	70,4
6> Sound press. for 1 [m] distance from air outlet		66,3	73,1	71,7	79,0	77,3	70,8	72,7	68,0	81,4
Calculated sound pressure levels are indicative only. It corresponds to : free field hemispheric sound radiation from the unit casing (4), the inlet (5) and the outlet (6) opening. Other sound sources, acoustic character of the room, air flow noise, duct connections and vibrations can influence the sound pressure in dependence. In practice, therefore measured values on site may be different from the calculated ones.										

Exhaust air



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Position 002
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TF	Bag Filter	762,5 [mm]	5,58 [m2]	228,00 [kg]	74 [Pa]
Manufacture Camfil Type HI-FLO XLT HFGX-M5-M5 tmax.=70°C Init.-Dim.-Fin. press. drop [Pa] 35-70-105 Class ISO 16890 ePM10 60% Airflow [m³/h] 25.000 Bag length [mm] 640,0 Filter energy class (EN 779:2012) A Filter media type Fiber Glass		Filter surface [m2] 60,00 Cells pcs x size [mm] 8 x 592,0 x 592,0 Guide galvanized coated (side removable center lock) Final pressure drop acc. EN 13053			
Standard hinged door ZIS Access side: left		Dimensions [mm]		610,0 x 1.220,0 -[R]	
(300) 1 Pcs Door lock					
Opening: 7 Full opening		Dimensions [mm]		2.380,0 x 1.160,0	
C-connection frame galvanized steel		4 [Pa]			
(78) 1 set Pressure test points mounted					
VF	Exhaust air blower fan	1.220,0 [mm]	7,7 [m2]	490,0 [kg]	178 [Pa]
Fan 2 x EC motor Air volume [m³/h] 12.500,00 External press. [Pa] 300 ext. press. on intake / outlet [Pa] -150 / 150 dyn.press.drop [Pa] 64 Tot. pressure [Pa] 724 Speed [1/min] 1.548 sound power [dB(A)] 90,8 System efficiency [%] 65,6 max. nom. RPM [1/min] 1.760 Calibration faktor K_A [m²s/h] 269 Speed control: variable speed shaft capacity [kW] 2 x 3,14		Protection IP54 Insulation class Nominal power [kW] 2 x 5,000 Speed +-2% [1/min] 1.760 Current +-5% [A] 2 x 7,70 Voltage [V] 3x400 / 50/60 Hz Tension Range [V] 380 ... 480 Electric absorbed power [kW] 2 x 3,49 Motor efficiency class analog to IEC60034: IE 5 Control voltage [V] 7,4 Connection diagram M3 (RP1)			
Fan octave band sound power level L _{okt} / dB		fan connection : rubber sealing			
Frq. [Hz] 63 125 250 500 1000 2000 4000 8000		Temperature increase fan section [°C] 0,80			
Inlet 67,0 79,9 79,0 74,9 76,2 75,6 82,0 71,2		No frequency converter needed!			
Outlet 75,7 81,9 79,7 84,5 84,7 80,1 83,5 75,0					
(30) 1 Pcs Pressure tapping on fan inlet cone					
(3154) 1 Pcs Fan anti-corrosion protection					
(53) 1 set Gland for power cable 2 x M20 / signal cable glands 2 x M20					
(47) 1 set Motor precabeled					
Standard hinged door ZIS Access side: left		Dimensions [mm]		610,0 x 1.220,0 -[R]	
(300) 1 Pcs Door lock					
Opening: 4 Bottom		Dimensions [mm]		2.380,0 x 500,0 [Pa]	
(73) 1 Pcs Walkway intake galvanized steel					
(178) 1 set Pressure test points mounted					
PT	Plate exchanger - diagonal	2.745,0 [mm]	29,84 [m2]	1.763,00 [kg]	178 [Pa]
For values/performances please refer to supply side					



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K	Cooling coil	305,0 [mm]	2,41 [m2]	257,00 [kg]	47 [Pa]						
Airflow [m³/h]	17.500 Density [kg/m³] 1,20	Medium	R410A	Content	39,9 l						
air velocity [m/s]	1,31 SHR 0,34	Evaporating temp. [°C]	7,00								
Air in [°C]	20,00 Humidity [%] 98,0	Pressure drop [mbar]	111								
Air out [°C]	15,77 Humidity [%] 100,0	Max press. [bar]	21								
Capacity [kW]	73,01	Interlaced Circuits	No								
air-side dry p.d. [Pa]	41										
30x26-ED/2,5pa/4R-37T-2126L-24N/V2/CU-IN1x35x1,5mm-OUT1x54x2,0mm/CU-ALB-AI/LT2431-HT1180-C190-90GL											
Connection side	left	Fins	ALP								
nos. of rows	4	Tubes	CU								
nos. of refr.circuits	1	Header	CU		Not threaded						
Fin spacing [mm]	2,50	Frames	AL								
Removable panel	ZIB	Access side: left	Dimensions [mm]	610,0 x 1.220,0							
Drain pan	GI - H: 35,0 mm - flat	Size	1.067,5x1.525,0 Ø1"-L not threaded								
Drip eliminator	Model TA144	Quality frame	AISI 304	Quality fins	PPTV 6 [Pa]						
L	Empty section	457,5 [mm]	0,8 [m2]	8,00 [kg]	21 [Pa]						
Opening:	3 Top opening				21 [Pa]						
M	Simple mixing section	57,5 [mm]	0,42 [m2]	25,00 [kg]	12 [Pa]						
Recycled air [m³/h]	7.500 15,77 [°C] 100,0 [%]	Mixed air	15,00 [°C]	Relative humidity	50,0 [%]						
Fresh air [m³/h]	7.500 20,00 [°C] 50,0 [%]	Mixing ratio	70 %								
Opening:	7 Full opening	Dimensions [mm]	2.380,0 x 1.160,0								
(23) Damper		Frame	AL	seal lip	Yes 2 [Pa]						
torque [Nm]	19,1	Blades	AL	Blade drive	Gearwheels , PPGF						
Axle	1	drive type	actuator, in air dir. right								
C-connection frame	galvanized steel				[Pa]						
Manufacture	BELIMO	Mode	modulating	Volt [V]	1x24						
Type	1 x SM24A-SR	Torque / pcs [Nm]	20,000	Protection	IP54						
Spring return	No	with extra auxiliary contac	No								
Opening:	2 Rear bottom	Dimensions [mm]	2.380,0 x 245,0								
(23) Damper		Frame	AL	seal lip	Yes 10 [Pa]						
torque [Nm]	3,8	Blades	AL	Blade drive	Gearwheels , PPGF						
Axle	1	drive type	actuator, in air dir. right								
C-connection frame	galvanized steel				[Pa]						
Manufacture	BELIMO	Mode	modulating	Volt [V]	1x24						
Type	1 x LM24A-SR	Torque / pcs [Nm]	5,000	Protection	IP54						
Spring return	No	with extra auxiliary contac	No								
AHU sound levels		ME	63	125	250	500	1000	2000	4000	8000	Tot dB(A)
1>	Airborne SWL over casing [dB]		64,5	64,2	53,8	56,9	55,5	50,5	51,6	43,3	60,2
2>	SWL at air inlet [dB]		65,2	78,9	76,0	70,9	73,2	71,6	77,0	65,2	80,8
3>	SWL at air outlet [dB]		61,9	75,9	69,7	72,5	71,7	64,1	68,5	59,0	75,9
4>	Sound press. for 1 [m] distance from AHU		45,6	45,3	34,9	38,0	36,6	31,6	32,7	24,4	41,3
5>	Sound press. for 1 [m] distance from air inlet		57,8	72,2	70,0	65,4	67,9	66,4	72,1	60,3	75,6
6>	Sound press. for 1 [m] distance from air outlet		54,5	69,2	63,7	67,0	66,4	58,9	63,6	54,1	70,6
Calculated sound pressure levels are indicative only. It corresponds to : free field hemispheric sound radiation from the unit casing (4), the inlet (5) and the outlet (6) opening. Other sound sources, acoustic character of the room, air flow noise, duct connections and vibrations can influence the sound pressure in dependence. In practice, therefore measured values on site May be different from the calculated ones.											



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Unit	50m olympic pool	Rev. date	30-11-2010

(408) **Counter base frame galvanized steel 150,0 mm**
AHU delivered as monobloc mounted on joint counter frame
Lifting equipment is not part of the scope of supply

- (420) 1 Pcs **Guides epoxy coated RAL 9003**
- (3169) 1 Pcs **Panel insulation mineral wool**
- (304) 1 Pcs **Floor and walls with hygiene seal**
- (407) 1 set **Base frame BF3 - 200 galvanized steel**
- (3125) 1 **Plug in profiles in PVC**
- (3166) 1 **Truck - Transport**
- (904) 1 Pcs **Front side covering White**
- (3127) 1 Pcs **Complete DX system supplied (see Attachment)**
- (3007) 1 Pcs **Unit with ETA MATIC Control integrated controls**
- (0) 1 Pcs **Drain pans, connection frames, anti-frost frame and droplet eliminator frame coated**

EUROVENT		Datas	
Rating / Casing MB	ZHK ZHK NOVA	DA EEC	17,00 [°C]
Thermal classes (MB)	L1 - TB2	Mixing Ratio	0 [%]
Casing air leakage (MB)	L1	Size reference velocity S/R	2,33 / 2,33 [m/s]
Mechanical strength (MB)	D1	Total static pressure EEC S/R	639 / 632 [Pa]
Energy efficiency class winter fan design for dry/wet conditions	C (2016) see relating section	Internal Static Pressure S/R	339 / 332 [Pa]
		Power input real S/R	6,93 / 6,99 [kW]
		Pressure drop ERS S/R	178 / 178 [Pa]
Country	Denmark	Total static pressure EEC S/R	639 / 632 [Pa]
ASHRAE - Install.	KOEBENHAVNS KASTRUP	Internal Static Pressure S/R	339 / 332 [Pa]
Design temperature dry bulb	26,20 [°C]	Power input real S/R	6,93 / 6,99 [kW]
Design temperature dew point	14,10 [°C]	Summer Temperature efficiency S/R	0 / 0 [%]
Winter design outdoor temperature	-5,2 [°C]	Summer wet/humidity efficiency S/R	0 / 0 [%]
Energy efficiency class summer	C (2020)	Pressure drop ERS S/R	0 / 0 [Pa]
		Mixing Ratio	0 [%]
ErP compliance according EU regulation no. 1253/2014			
a) Manufacturer	Euroclima	j) Face velocity S/R	0,7 / 2,33 [m/s]
b) Model identifier	23/0028 / 002	k) Nominal external pressure S/R	300 / 300 [Pa]
c) Unit type	NRVU - BVU	l) Int press.drop vent. components S/R	218 / 251 [Pa]
d) Type of drive Supply	variable speed	m) int press.drop not vent. components S/R	95 / 46 [Pa]
Type of drive Return	variable speed	n) Static fan efficiency (EU No 327/2011) S/R	70,2 / 70,2 [%]
e) Energy recovery system type	other HRS	o) External leakage -400 / +400 Pa (RU)	0,57 / 0,57 [%]
f) thermal efficiency of HRS	77,9[%]	Internal leakage	on request
g) Nominal air flow rate S/R	6,94 / 6,94 [m³/s]	p) energy classification filters	see filter data
h) effective electric power input	13,92 [kW]	r) Casing sound power level LWA	63 [dB(A)]
i) SFP int	741 [W/(m³/s)]	s) www.euroclima.com	



Offer	23/0028		
Drawing	002	Pieces	2
Position	002	Rev. Nr.	1
Unit	50m olympic pool	Rev. date	30-11-2010

Information according EU Regulation 517/2014

Because of the EU Directive EC 517/2014 operators of DX systems are required to check the DX circuit periodically (depending on GWP tons) for leaks and capture this in the DX testing book. As part of a maintenance agreement the manufacturer can assume this legal necessity for you.

Please consider the potential need for a registration of your DX system to the responsible authority.

Commissioning and maintenance and leakage test must be carried out only by a certified DX system technician!

Information according Regulation EC 2281/2016

The EU Regulation 2281/2016 lays down requirements for the environmentally compatible design of energy-related products with regard to air heating products, cooling products, process coolers with high operating temperature and fan coils.

The Regulation allows exceptions in certain cases. Some of these exceptions depend on the specific use of the product and an interpretation of this specific case is necessary. The following situation applies to the product to this data sheet: The product to this data sheet is a custom-made product. It was designed according to the customer's specifications and the manufacturer was not informed about the exact application and use of the device. According to the customer's information, an exception can be made for this device, therefore the device has been designed outside the guidelines of EU regulation No. 2281/2016.

EKSEMPEL

AHU with heat recovery DX circuit

By ordering this product, the customer confirms this and accepts the following clauses:

- The product is sold by the manufacturer as "out of scope" of the Regulation No. EU 2281/2016
- A declaration of conformity and CE marking in accordance with the Directive 2281/2016 on the part of the manufacturer is therefore not possible.
- The customer confirms the stated reason for this exception.
- The customer confirms that there are no objections from the project consultant, the end customer or from any local, national or international authority, norm or law which contradict with the stated exception.

In case of doubt, the manufacturer recommends to clarify the necessity of conformity with the design office that designed the ventilation system and prepared the product specification before ordering.



Offer 23/0028
Drawing 002
Position 002
Unit 50m olympic pool

Pieces 2
Rev. Nr. 1
Rev. date 30-11-2010

ETAMatic Basic execution

<input checked="" type="checkbox"/> Siemens Climatix DDC controller + I/O modules	<input checked="" type="checkbox"/> Air flow control
<input checked="" type="checkbox"/> Modbus IP communication	<input checked="" type="checkbox"/> Temperature control
<input checked="" type="checkbox"/> User display with spiral cable	<input checked="" type="checkbox"/> Filter control with pressostat
<input checked="" type="checkbox"/> Frost protection plate heat exchanger	<input checked="" type="checkbox"/> High pressure control plate heat exchanger
<input checked="" type="checkbox"/> Coils control with secondary pump supply	<input checked="" type="checkbox"/> Programming socket with RC circuit breaker

Control options

<input checked="" type="checkbox"/> Humidity sensors	<input checked="" type="checkbox"/> DX control
<input type="checkbox"/> Duct pressure sensors	<input checked="" type="checkbox"/> High/Low pressure switch DX
<input type="checkbox"/> CO2 air quality sensor	<input checked="" type="checkbox"/> High/Low pressure sensor DX
<input type="checkbox"/> VOC air quality sensor	<input type="checkbox"/> Enthalpy design
<input type="checkbox"/> Room sensor	<input type="checkbox"/> Touch screen
<input type="checkbox"/> Remote from unit interface	<input type="checkbox"/> T power grid retrofit
<input type="checkbox"/> Potential free hardware contacts with LED lamps	<input type="checkbox"/> Energy measurement
<input checked="" type="checkbox"/> Recirculation damper	<input type="checkbox"/> BACnet IP communication
<input type="checkbox"/> Smoke detector	<input type="checkbox"/> BACnet MS/T communication
<input type="checkbox"/> Vibration sensors for fans	<input type="checkbox"/> Modbus RTU communication
<input type="checkbox"/> Humidifier - Power connection by customer	<input type="checkbox"/> LON communication
<input type="checkbox"/> Humidifier - Power connection by manufacturer	<input type="checkbox"/> Filter control with pressure sensor
<input type="checkbox"/> Plug & Play solution cabling	<input type="checkbox"/> E-Coil control with thyristor
<input type="checkbox"/> Adiabatic / ETA Pac execution	<input type="checkbox"/> Climatix IC Cloud remote control + Router & SIM
<input checked="" type="checkbox"/> Climatix IC Cloud remote control	<input type="checkbox"/> Zone Control (0)
<input type="checkbox"/> Climatix Basic	<input type="checkbox"/> Predictive Maintenance
<input type="checkbox"/> Tagging	<input type="checkbox"/> Modbus Sensoren Zonen
<input type="checkbox"/> Feinstaubsensor	<input type="checkbox"/> External condensing units: False
<input type="checkbox"/> Technical Cabinet attached	<input type="checkbox"/> Halogenfree cabling
<input type="checkbox"/> Firemen switch	<input checked="" type="checkbox"/> Distance ELP 10000 mm L

Euroclima participates in the ECP programme for: Air Handling Units (AHU). Check ongoing validity of certificate: www.eurovent-certification.com

Note: Specified components supplier are exemplary and might change. Specified weights are weights of empty components. We reserve the right to make changes insofar as these serve to improve the product.