DAIKIN

EEDEN09-404

technical data



Applied Systems

R-407C

Air-cooled
EUWY*5-24KAZW

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Applied Systems

R-407C

Air-cooled
EUWY*5-24KAZW

Cooling only



Heating only



Heat pump



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EUWY-KAZW

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1 Features

- Optimised for use with R-407C
- Daikin scroll compressor
- Reduced installation time thanks to integrated pump and/or buffer tank
- Possibility for a 200 l buffer tank (KAZ-series)
- Low operating sound level
- Improved serviceability
- Main switch
- Water flow switch
- 3 different design options available
- EUWYB chiller with integrated hydraulic module (buffer tank, pump, expansion vessel, hydraulic components)
- EUWYN chiller without integrated hydraulic module
- EUWYP chiller with integrated hydraulic module (pump, expansion vessel, hydraulic components)



2 Specification text

Unit construction

Compact, modular and weatherproof design air-cooled chiller for outdoor installation IP24 – manufactured according to the ISO 9001 quality standard.

The ready-to-connect range has been designed for both air conditioning and process cooling applications. The use of state-of-the-art technologies and high quality materials ensures efficiency, reliability and an extended service life.

Each DAIKIN chiller is subjected to many hours of test runs in the factory allowing for standard requirements.

Casing / Colour

Powder coated, galvanised steel plate. Fully factory assembled on a base frame. Colour ivory white (+/- RAL 7044) / Munsell code 5Y7.5/1

Number of refrigerant circuits

Module size 5-12 single circuit, 16-24 double circuit.

Each refrigerant circuit has its own fully independent design thereby guaranteeing a high level of system reliability.

Compressor

One R-407C optimised fully hermetically sealed DAIKIN scroll type compressor per refrigerant circuit. As a design requirement, this compressor characteristically offers extremely smooth performance, efficiency and operational reliability. Each compressor is mounted in the unit with vibration isolation, with oil sump heating and fitted with a heat overload cut-out (Klixon).

Condenser

A high-performance design Cu/Alu heat exchanger. Consisting of internally drawn helical Cu pipe (Hi -X) guaranteeing excellent heat transmission and optimal oil transport. Provided with a built-in subcooler to further improve performance. By increasing the heat transmission surface using continuous laminated honeycomb slotted flaps, a very low sound level is attained still with compact dimensions. A polyacryl coating permanently protects the flaps from corrosion thereby extending the field of application of this device.

Fans

Directly driven, low-noise axial fans with outlet protective grating. Statically and dynamically balanced drive motor design with maintenance-free bearings for outdoor installation. **Motor safety class IP 54**.

Evaporator

R-407C optimised DX counter flow plate heat exchanger made of stainless steel, plates brazed gastight with copper, for water and glycol mixtures. As from module size 16 in twin circuit design (two refrigerant circuits / one water circuit). A special refrigerant distribution system has been incorporated into the plate duct for optimal capacity of the complete heat transmission surface. As well as an additional increase in efficiency, this is also responsible for stable control behaviour in the heat exchanger. The plate heat exchanger is heat-insulated to ensure it is diffusion-proof to prevent any heat loss.

Piping

Consisting of Cu pipe with all the necessary cooling fittings such as:

service valves, filter-driers; TEV with external pressure equalisation. The refrigerant circuit is subject to factory pressure and leak testing, is cleaned, dried, evacuated and supplied with the safety refrigerant R-407C and filled with oil ready for operation. The plate heat exchanger is cased with galvanised steel and is fitted with a catch pan and an electronic contactor.

Hydraulic module

To be able to cover a larger range of applications, the EUWY*5-24KAZW range can be supplied with or without integrated hydraulic components. Within the standard scope of supply for EUWYN devices (basic unit), the mandatory contactor and a water filter are already included. The scope of supply of the EUWYP devices also includes all components needed for operation as well as a circulation pump, expansion vessel, manometer, shut-off valves, safety valve, deaeration, filling and drainage valve, maintenance connections and compensation valve. With the EUWYB variants, the scope of supply set out above is further expanded with 55 l buffer tank.

Safety and control devices

Each refrigerant circuit has the following safety devices:

High- and low-pressure switch, hot gas temperature monitoring, thermal cut-out for compressor and fan motors, overload relay, frost protection and evaporator companion heating.

Each refrigerant circuit is fitted with the following control devices:

Electronic temperature monitoring, phase-sequence relay, timing safety device and switch frequency limiter.

Switching and control device

In addition to the fully automated µ-Chiller digital controller (manufactured by CARREL), the control cabinet manufactured in accordance with the valid EN directives (CE) fulfils safety class IP 54 and contains all the required switching and control components such as:

Main switch, load, auxiliary and control cut-outs, transformers, control fuses, relay and auxiliary relay, sensors and µ-Chiller digital controller.

2

The electronics have an automatic restart after power failure and provide the following digital inputs and outputs hard-wired to terminals for incorporating the GLT:

Digital inputs:	Digital outputs:
- Contactor	- Collection fault message
- Pump contact	- General operating message
- Remote ON / OFF	- Operating message per compressor
	- Cold water pump drive

µ-Chiller digital controller

The EUWY*-KAZW units are fitted with a digital controller, which allows the user to configure, operate and service the unit in a user-friendly manner. The µ-Chiller digital controller consists of a numerical display, 4 control keys and 4 LEDs.

The following functions are supported by the electronics, amongst other things:

- 3-step condensation pressure control (winter control down to -15 °C ambient temperature)
- Allocation of the set point and the desired switching hysteresis
- Cold water return controller
- Allocation of pump lead times / overrun times
- Allocation of service intervals
- Displaying the current operating parameter such as flow and return temperatures
- Recording operating hours (compressor / pump)
- Fault code query
- Password protection

As an option this chiller can be fitted with an interface for integrating it into a Building Management System (BMS), which either supports the MODbus / J-bus or BACnet protocol.

3 Specifications

3-1 TECHNICAL SPECIFICATIONS				EUWYN5KAZW1	EUWYP5KAZW1	EUWYB5KAZW1	EUWYN8KAZW1	EUWYP8KAZW1	EUWYB8KAZW1
Capacity (Eurovent)	Cooling	Nominal	kW	9.10	9.10	9.10	17.10	17.10	17.10
	Heating	Nominal	kW	11.90	11.90	11.90	18.50	18.50	18.50
Capacity Steps			%	0-100					
Nominal input (Eurovent)	Cooling		kW	3.78	3.78	3.78	7.45	7.46	7.46
	Heating		kW	4.59	4.59	4.59	7.10	7.10	7.10
Casing	Colour			Ivory white/Munsell code 5Y7.5/1					
	Material			Polyester coated galvanised steel					
Dimensions	Unit	Height	mm	1230			1230		
		Width	mm	1290			1290		
		Depth	mm	734			734		
Weight	Unit		kg	163	181	193	227	241	253
	Operating Weight		kg	165	184	252	230	244	312
Water Heat Exchanger	Type			Brased plate					
	Minimum water volume in the system		l	43			82		
	Water flow rate	Min	l/min	21			31		
		Max	l/min	68			106		
	Nominal Water Flow	Cooling	l/min	26			49		
		Heating	l/min	34			53		
Nominal water pressure drop	Cooling	Heat exchanger	kPa	10			25		
	Heating	Heat exchanger	kPa	17			29		
Water Heat Exchanger	Insulation material			Climaflex					
	Model	Quantity		1			1		
		Model		AC50-34HX			AC50-40HX		
Air heat exchanger	Type			Cross fin coil/Hi-X tubes and PE coated waffle louvre fins					
	Rows			2			2		
	Stages			40			40		
	Fin Pitch		mm	2.00			2.00		
	Face Area		m²	1.57			1.57		
Pump	Type			-	Horizontal multi-stage end-suction		-	Horizontal multi-stage end-suction	
	Quantity				1			1	
	Model				CH4-30			CH4-30	
	Nominal static height pump	Heating	kPa		244			219	
		Heating	kPa		236			214	
	Nominal static height unit	Heating	kPa		223			171	
		Heating	kPa		205			160	
Hydraulic components	Buffer tank volume		l	-		55	-		55
	Unit water volume		l	2	3	59	3	3	59
	Safety valve		bar	-	3		-	3	
Fan	Drive			Direct drive					
	Nominal air flow		m³/min	160.00			170.00		
	Model	Quantity		2			1		
		Motor Output	W	140			190		
		Discharge direction		Vertical					
		Quantity		-			1		
		Motor Output	W				230		
		Discharge direction					Vertical		
Compressor	Type			Hermetically sealed scroll compressor					
	Refrigerant oil type			Daphne FVC68D					
	Refrigerant oil charge		l	1.5			2.7		
	Model	Quantity		1			1		
		Model		JT140BF-YE			JT212DA-YE		
		Speed	rpm	2900			2900		
		Crankcase Heater	W	33			50		
Sound level	Sound Power	Cooling	dBA	67			76		

3-1 TECHNICAL SPECIFICATIONS				EUWYN5KAZW1	EUWYP5KAZW1	EUWYB5KAZW1	EUWYN8KAZW1	EUWYP8KAZW1	EUWYB8KAZW1
Refrigerant circuit	Refrigerant type			R-407C					
	Refrigerant charge		kg	4.6			4.7		
	No of circuits			1			1		
	Refrigerant control			Thermostatic expansion valve					
Piping connections	Evaporator water inlet/outlet			1-1/4''					
	Evaporator water drain			15mm					
Safety Devices				High pressure switch					
				Low pressure switch					
				Discharge temperature protector					
				Outlet water temperature protection					
				Compressor motor overcurrent relay					
				Pump motor overcurrent					
				Fan thermal protector					
				Anti-recycling and guard timer					
				Digital display controller with electronic temperature control					
				Reverse phase protector					
				Flowswitch					
Notes				Nominal cooling capacities are based on the following conditions: Evaporator : 12°C/7°C ; condenser : 30°C/35°C					Nominal cooling capacity is based on the following conditions: evaporator: 12°C/7°C; ambient: 35°C
				Nominal heating capacity is based on the following conditions: ambient: 7°CDB/6°CWB; condenser: 40°C/45°C					
				The sound pressure level is measured via a microphone at a certain distance from the unit. It is a relative value, depending on the distance and acoustic environment.					
				The sound power level is an absolute value indicating the ''power'' which a sound source generates.					

3-1 TECHNICAL SPECIFICATIONS				EUWYN10KAZW1	EUWYP10KAZW1	EUWYB10KAZW1	EUWYN12KAZW1	EUWYP12KAZW1	EUWYB12KZW1
Capacity (Eurovent)	Cooling	Nominal	kW	21.00	21.00	21.00	25.00	25.00	25.00
	Heating	Nominal	kW	24.00	24.00	24.00	27.00	27.00	27.00
Capacity Steps			%	0-100					
Nominal input (Eurovent)	Cooling		kW	8.57	8.57	8.57	11.40	11.40	11.40
	Heating		kW	9.10	9.10	9.10	10.80	10.80	10.80
Casing	Colour			Ivory white/Munsell code 5Y7.5/1					
	Material			Polyester coated galvanised steel					
Dimensions	Unit	Height	mm	1450			1450		
		Width	mm	1290			1290		
		Depth	mm	734			734		
Weight	Unit		kg	258	272	284	258	272	284
	Operating Weight		kg	261	275	343	261	275	343
Water Heat Exchanger	Type			Brased plate					
	Minimum water volume in the system		l	100			119		
	Water flow rate	Min	l/min	38			45		
		Max	l/min	137			155		
	Nominal Water Flow	Cooling	l/min	60			72		
		Heating	l/min	69			77		
Nominal water pressure drop	Cooling	Heat exchanger	kPa	24			33		
	Heating	Heat exchanger	kPa	31			38		
Water Heat Exchanger	Insulation material			Climaflex					
	Model	Quantity		1			1		
		Model		AC50-50HX					
Air heat exchanger	Type			Cross fin coil/Hi-X tubes and PE coated waffle louvre fins					
	Rows			2			2		
	Stages			50			50		
	Fin Pitch		mm	2.00			2.00		
	Face Area		m²	1.97			1.97		

3-1 TECHNICAL SPECIFICATIONS				EUWYN10KAZW1	EUWYP10KAZW1	EUWYB10KAZW1	EUWYN12KAZW1	EUWYP12KAZW1	EUWYB12KZW1
Pump	Type			-	Horizontal multi-stage end-suction		-	Horizontal multi-stage end-suction	
	Quantity				1			1	
	Model				CH4-30			CH4-30	
	Nominal static height pump	Heating	kPa		205			188	
		Heating	kPa		193			180	
	Nominal static height unit	Heating	kPa		151			118	
		Heating	kPa		127			100	
Hydraulic components	Buffer tank volume		l	-		55	-		55
	Unit water volume		l	3	3	59	3	3	59
	Safety valve		bar	-	3		-	3	
Fan	Drive			Direct drive					
	Nominal air flow		m³/min	170.00			170.00		
	Model	Quantity		1			1		
		Motor Output	W	190			190		
		Discharge direction		Vertical					
		Quantity		1			1		
		Motor Output	W	230			230		
		Discharge direction		Vertical					
Compressor	Type			Hermetically sealed scroll compressor					
	Refrigerant oil type			Daphne FVC68D					
	Refrigerant oil charge		l	2.7			2.7		
	Model	Quantity		1			1		
		Model		JT256DA-YE			JT335DA-YE		
		Speed	rpm	2900			2900		
		Crankcase Heater	W	50			50		
Sound level	Sound Power	Cooling	dBA	78			78		
Refrigerant circuit	Refrigerant type			R-407C					
	Refrigerant charge		kg	5.4			5.4		
	No of circuits			1				1	
	Refrigerant control			Thermostatic expansion valve					
Piping connections	Evaporator water inlet/outlet			1-1/4''					
	Evaporator water drain			15mm					
Safety Devices				High pressure switch					
				Low pressure switch					
				Discharge temperature protector					
				Outlet water temperature protection					
				Compressor motor overcurrent relay					
				Pump motor overcurrent					
				Fan thermal protector					
				Anti-recycling and guard timer					
				Digital display controller with electronic temperature control					
				Reverse phase protector					
				Flowswitch					
Notes				Nominal cooling capacities are based on the following conditions: Evaporator : 12°C/ 7°C ; condenser : 30°C/35°C		Nominal cooling capacity is based on the following conditions: evaporator: 12°C/7°C; ambient: 35°C			
				Nominal heating capacity is based on the following conditions: ambient: 7°CDB/6°CWB; condenser: 40°C/45°C					
				The sound pressure level is measured via a microphone at a certain distance from the unit. It is a relative value, depending on the distance and acoustic environment.					
				The sound power level is an absolute value indicating the ''power'' which a sound source generates.					

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3-1 TECHNICAL SPECIFICATIONS				EUWYN16KAZW1	EUWYP16KAZW1	EUWYB16KAZW1	EUWYN20KAZW1	EUWYP20KAZW1	EUWYB20KAZW1
Nominal Capacity	Cooling		kW	34.20	34.20	34.20	40.00	40.00	40.00
	Heating		kW	37.00	37.00	37.00	46.00	46.00	46.00
Capacity Steps			%	0-50-100					
Nominal Input	Cooling		kW	14.90	14.90	14.90	16.30	16.30	16.30
	Heating		kW	14.20	14.20	14.20	17.40	17.40	17.40
EER				2.30	2.30	2.30	2.45	2.45	2.45
COP				2.61	2.61	2.61	2.64	2.64	2.64
Casing	Colour			Ivory white					
	Material			Polyester coated galvanised steel plate					
Dimensions	Unit	Height	mm	1321			1541		
		Width	mm	2580			2580		
		Depth	mm	734			734		
Weight	Machine Weight		kg	455	473	485	516	534	546
	Operating Weight		kg	461	482	550	522	544	612
Water Heat Exchanger	Type			Brased plate					
	Minimum water volume in the system		l	82			96		
	Water flow rate	Min	l/min	61			72		
		Max	l/min	212			263		
	Nominal water flow	Cooling	l/min	98			115		
		Heating	l/min	106			132		
	Nominal water pressure drop	Cooling	kPa	12			12		
		Heating	kPa	14			16		
	Insulation material			Climaflex					
	Model	Quantity		1			1		
		Model		AC130-50DQ			AC130-58DQ		
Air heat exchanger	Type			Cross fin coil/Hi-X tubes and PE coated waffle louvre fins					
	Rows			2			2		
	Stages			40			50		
	Fin Pitch		mm	2.00			2.00		
	Face Area		m²	1.57			1.97		
			m²	1.57			1.97		
Pump	Type			-	Horizontal multi-stage end-suction		-	Horizontal multi-stage end-suction	
	Quantity				1			1	1
	Model				CH8-30			CH8-30	CH8-30
	Nominal static height pump	Cooling	kPa		251			233	233
		Heating	kPa		243			212	212
	Nominal static height unit	Cooling	kPa		209			183	183
		Heating	kPa		195			147	147
Hydraulic components	Buffer tank volume		l	-		55	-		55
	Unit water volume		l	6	9	65	6	10	66
	Expansion vessel		l	-	12		-	12	
	Pre-pressure expansion vessel		bar	-	1.5		-	1.5	
	Safety valve		bar	-	3		-	3	
Fan	Drive			Direct drive					
	Nominal air flow		m³/min	170.00			170.00		
			m³/min	170.00			170.00		
	Model	Quantity		2			2		
		Motor Output	W	190			190		
		Discharge direction		Vertical					
		Quantity		2			2		
		Motor Output	W	230			230		
		Discharge direction		Vertical					

3-1 TECHNICAL SPECIFICATIONS				EUWYN16KAZW1	EUWYP16KAZW1	EUWYB16KAZW1	EUWYN20KAZW1	EUWYP20KAZW1	EUWYB20KAZW1
Compressor	Type			Hermetically sealed scroll compressor					
	Refrigerant oil type			Daphne FVC68D					
	Refrigerant oil charge		l	2.7			2.7		
			l	2.7			2.7		
	Model	Quantity		2			2		
		Model		JT212DA-YE			JT265DA-YE		
		Speed	rpm	2900			2900		
		Crankcase Heater	W	50			50		
Sound Level	Sound Power		dBA	79			81		
Refrigerant circuit	Refrigerant type			R-407C					
	Refrigerant charge		kg	10.2			10.8		
	No of circuits			2			2		
	Refrigerant control			Thermostatic expansion valve					
Piping connections	Evaporator water inlet/outlet			2"					
	Water drain		Ø	15mm					
Safety Devices				High pressure switch					
				Low pressure switch					
				Discharge temperature control					
				Outlet water temperature protection					
				Compressor motor overcurrent relay					
				Pump motor overcurrent					
				Fan thermal protector					
				Anti-recycling and guard timer					
				Digital display controller with electronic temperature control					
				Reverse phase protector					
				Flowswitch					

3-1 TECHNICAL SPECIFICATIONS				EUWYN24KAZW1	EUWYP24KAZW1	EUWYB24KAZW1
Capacity (Eurovent)	Cooling	Nominal	kW	50.00	50.00	50.00
	Heating	Nominal	kW	54.00	54.00	54.00
Capacity Steps			%	0-50-100		
Nominal input (Eurovent)	Cooling		kW	22.80	22.80	22.80
	Heating		kW	21.60	21.60	21.60
Casing	Colour			Ivory white/Munsell code 5Y7.5/1		
	Material			Polyester coated galvanised steel		
Dimensions	Unit	Height	mm	1541		
		Width	mm	2580		
		Depth	mm	734		
Weight	Unit		kg	516	534	546
	Operating Weight		kg	522	544	612
Water Heat Exchanger	Type			Brased plate		
	Minimum water volume in the system		l	119		
	Water flow rate	Min	l/min	89		
		Max	l/min	309		
	Nominal Water Flow	Cooling	l/min	143		
		Heating	l/min	155		
Nominal water pressure drop	Cooling	Heat exchanger	kPa	19		
	Heating	Heat exchanger	kPa	22		
Water Heat Exchanger	Insulation material			Climaflex		
	Model	Quantity		1		
		Model		AC130-58DQ		
Air heat exchanger	Type			Cross fin coil/Hi-X tubes and PE coated waffle louvre fins		
	Rows			2		
	Stages			50		
	Fin Pitch		mm	2.00		
	Face Area		m^2	1.97		
			m^2	1.97		

3-1 TECHNICAL SPECIFICATIONS				EUWYN24KAZW1	EUWYP24KAZW1	EUWYB24KAZW1
Pump	Type				Horizontal multi-stage end-suction	
	Quantity				1	
	Model				CH8-40	
	Nominal static height pump	Heating	kPa	-	222	
		Heating	kPa		199	
	Nominal static height unit	Heating	kPa		146	
		Heating	kPa		111	
Hydraulic components	Buffer tank volume		l	-		55
	Unit water volume		l	6	10	66
	Safety valve		bar	-	3	
Fan	Drive			Direct drive		
	Nominal air flow		m³/min	170.00		
			m³/min	170.00		
	Model	Quantity		2		
		Motor Output	W	190		
		Discharge direction		Vertical		
		Quantity		2		
		Motor Output	W	230		
		Discharge direction		Vertical		
Compressor	Type			Hermetically sealed scroll compressor		
	Refrigerant oil type			Daphne FVC68D		
	Refrigerant oil charge		l	2.7		
			l	2.7		
	Model	Quantity		2		
		Model		JT335DA-YE		
		Speed	rpm	2900		
		Crankcase Heater	W	50		
Sound level	Sound Power	Cooling	dBA	81		
Refrigerant circuit	Refrigerant type			R-407C		
	Refrigerant charge		kg	11.2		
	No of circuits			2		
	Refrigerant control			Thermostatic expansion valve		
Piping connections	Evaporator water inlet/outlet			2''		
	Evaporator water drain			15mm		
Safety Devices				High pressure switch		
				Low pressure switch		
				Discharge temperature protector		
				Outlet water temperature protection		
				Compressor motor overcurrent relay		
				Pump motor overcurrent		
				Fan thermal protector		
				Anti-recycling and guard timer		
				Digital display controller with electronic temperature control		
				Reverse phase protector		
				Flowswitch		
Notes				Nominal cooling capacity is based on the following conditions: evaporator: 12°C/7°C; ambient: 35°C		
				Nominal heating capacity is based on the following conditions: ambient: 7°CDB/6°CWB; condenser: 40°C/45°C		
				The sound pressure level is measured via a microphone at a certain distance from the unit. It is a relative value, depending on the distance and acoustic environment.		
				The sound power level is an absolute value indicating the ''power'' which a sound source generates.		

3-2 ELECTRICAL SPECIFICATIONS				EUWYN5KAZW1	EUWYP5KAZW1	EUWYB5KAZW1	EUWYN8KAZW1	EUWYP8KAZW1	EUWYB8KAZW1
Power Supply	Name			W1					
	Phase			3N~					
	Frequency		Hz	50			50		
	Voltage		V	400			400		
	Voltage Tolerance	Minimum	%	-10%					
		Maximum	%	+10%					
Unit	Starting Current		A	62.2	63.5	63.5	97.9	99.2	99.2
	Nominal Running Current Cooling		A	7.70	9.00	9.00	13.60	14.90	14.90
	Maximum Running Current		A	11.20	12.50	12.50	16.90	18.20	18.20
	Recommended fuses according to IEC standard 269-2			3x20gL/gG	3x20gL/gG	3x20gL/gG	3x25gL/gG	3x25gL/gG	3x25gL/gG
Fan	Quantity			2			2		
	Maximum Running Current		A	2.20			2.90		
Pump	Phase			-	3~		-	3~	
	Voltage		V		400			400	
	Maximum Running Current		A		1.3			1.3	
Compressor	Phase			3~			3~		
	Voltage		V	400			400		
	Starting current		A	60.0			95.0	-	
	Nominal running current (RLA)		A	5.50			10.70		
	Maximum Running Current		A	9.00			14.00		
	Starting Method			Direct on line			Direct on line		
Control Circuit	Phase			1~			1~		
	Voltage		V	230			230		
	Recommended fuses			Factory installed					

3-2 ELECTRICAL SPECIFICATIONS				EUWYN10KAZW1	EUWYP10KAZW1	EUWYB10KAZW1	EUWYN12KAZW1	EUWYP12KAZW1	EUWYB12KAZW1
Power Supply	Name			W1					
	Phase			3N~					
	Frequency		Hz	50			50		
	Voltage		V	400			400		
	Voltage Tolerance	Minimum	%	-10%					
		Maximum	%	+10%					
Unit	Starting Current		A	113	114	114	139	140	140
	Nominal Running Current Cooling		A	15.90	17.20	17.20	20.50	21.80	21.80
	Maximum Running Current		A	19.90	21.20	21.20	26.90	28.20	28.20
	Recommended fuses according to IEC standard 269-2			3x25gL/gG	3x32gL/gG	3x32gL/gG	3x32gL/gG	3x40gL/gG	3x40gL/gG
Fan	Quantity			2			2		
	Maximum Running Current		A	2.90			2.90		
Pump	Phase			-	3~		-	3~	
	Voltage		V		400			400	
	Maximum Running Current		A		1.3			1.3	
Compressor	Phase			3~			3~		
	Voltage		V	400			400		
	Starting current		A	110.0			136.0		
	Nominal running current (RLA)		A	13.00			17.60		
	Maximum Running Current		A	17.00			24.00		
	Starting Method			Direct on line					
Control Circuit	Phase			1~			1~		
	Voltage		V	230			230		
	Recommended fuses			Factory installed					

3-2 ELECTRICAL SPECIFICATIONS				EUWYN16KAZW1	EUWYP16KAZW1	EUWYB16KAZW1	EUWYN20KAZW1	EUWYP20KZW1	EUWYB20KZW1
Power Supply	Name			W1					
	Phase			3N~					
	Frequency		Hz	50			50		
	Voltage		V	400			400		
	Voltage Tolerance	Minimum	%	-10%					
		Maximum	%	+10%					
Unit	Starting Current		A	97.9	99.9	99.9	113	115	115
	Nominal Running Current Cooling		A	27.20	29.20	29.20	31.80	33.80	33.80
	Maximum Running Current		A	33.80	35.80	35.80	39.80	41.80	41.80
	Recommended fuses according to IEC standard 269-2			3x40gL/gG	3x50gL/gG	3x50gL/gG	3x50gL/gG	3x50gL/gG	3x50gL/gG
Fan	Quantity			4	4	4	4	4	4
	Maximum Running Current		A	5.80	5.80	5.80	5.80	5.80	5.80
Pump	Phase			-	3~		-	3~	
	Voltage		V		400			400	
	Maximum Running Current		A		2.0			2.0	
Compressor	Phase			3~					
	Voltage		V	400			400		
	Starting current		A	95.0			110.0		
	Nominal running current (RLA)		A	10.70			13.00		
	Maximum Running Current		A	14.00			17.00		
	Starting Method			Direct on line					
Control Circuit	Phase			1~					
	Voltage		V	230			230		

3-2 ELECTRICAL SPECIFICATIONS				EUWYN24KAZW1	EUWYP24KAZW1	EUWYB24KAZW1
Power Supply	Name			W1		
	Phase			3N~		
	Frequency		Hz	50	50	50
	Voltage		V	400	400	400
	Voltage Tolerance	Minimum	%	-10%		
		Maximum	%	+10%		
Unit	Starting Current		A	139	142	142
	Nominal Running Current Cooling		A	41.00	43.70	43.70
	Maximum Running Current		A	53.80	56.50	56.50
	Recommended fuses according to IEC standard 269-2			3x63gL/gG		
Fan	Maximum Running Current		A	5.80		
Pump	Phase			-	3~	
	Voltage		V		400	
	Maximum Running Current		A		2.7	
Compressor	Phase			3~		
	Voltage		V	400		
	Starting current		A	136.0		
	Nominal running current (RLA)		A	17.60		
	Maximum Running Current		A	24.00		
	Starting Method			Direct on line		
Control Circuit	Phase			1~		
	Voltage		V	230		
	Recommended fuses			Factory installed		

Number	Description	Decimal code	(On)	Unit size																				Availability
				5KAZW			8KAZW			10KAZW			12KAZW			16KAZW			20KAZW			24KAZW			
				N	P	B	N	P	B	N	P	B	N	P	B	N	P	B	N	P	B	N	P	B	
	Standard unit			○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	
	Not completely combinable options	1st digit																						
ZH	chilled water temp down to -5°C	12	C--	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	Factory mounted
ZL	chilled water temp down to -10°C	24	O--	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	Factory mounted
	Completely combinable options	2nd/3rd digit																						
ESP	Fan motor size up (high esp 5mmH_2O)	4	--4	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	Factory mounted
Option pump high	Pump size up	8	--8	-	○	○	-	○	○	-	○	○	-	○	○	-	○	○	-	○	○	-	○	○	Factory mounted
OP10	Evaporator heatertape	16	--G	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	Factory mounted
	Available kit																							
EKGAU5/8KA	gauges kit 5/8 Hp-units			○	○	○	○	○	○	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Kit
EKGAU10/12KA	gauges kit 10/12Hp-units			-	-	-	-	-	-	○	○	○	○	○	○	-	-	-	-	-	-	-	-	-	Kit
EKGAU16KA	gauges kit 16 Hp-units			-	-	-	-	-	-	-	-	-	-	-	-	○	○	○	-	-	-	-	-	-	Kit
EKGAU20/24KA	gauges kit 20/24 Hp-units			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	○	○	○	○	○	○	Kit
EKSS	Softstarter kit			○	○	○	○	○	○	○	○	○	○	○	○	-	-	-	-	-	-	-	-	-	Kit
EKAC10B (See notes 2)	Address card			○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	Kit
EKBMSMBA (See notes 2)	gateway for BMS - Modbus			○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	Kit
EKBMSBNA (See notes 2)	gateway for BMS - Bacnet			○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	Kit
EKRUMC (See notes 2)	Remote installed user interface			○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	Kit
EKBT	Buffertank 200l			○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	Kit
	Example of possible option combinations																							
ESP + Option pump high		12	--C																					
ESP + OP10		20	--K																					
ESP + OP10 + Option pump high		28	--S																					
OP10 + Option pump high		24	--O																					

3TW55179-5B

NOTES 1

○ X not available yet

○ Available

- Not available

○ - Available and a quantity is necessary / unit

Impossible option combinations:
ZH+ZL

NOTES 2

To install EKBMSMBA, EKBMSBNA and EKRUMC=> EKAC10B needs to be installed on the unit.

5 Control systems

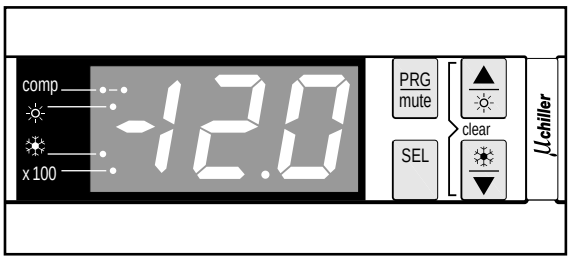
Direct and user parameters

The digital controller provides direct and user parameters. The direct parameters are important for the everyday usage of the unit, e.g. to adjust the temperature setpoint or to consult actual operational information. The user parameters on the contrary provide advanced features such as adjusting time delays or disabling the buzzer. Each parameter is defined by a code and a value. For example, the parameter used to select local or remote on/off control has code h7 and value 1 or 0.

User interface EUWY5-24KAZW

The digital controller consists of a numeric display, four labelled keys which you can press an four LEDs providing extra user information.

Digital controller



Keys provided on the controller.

Each key, except for the lower left key, combines two functions: PRG / mute, ▲ / ☼ and ❄ / ▼. The function carried out when the user presses one of these keys depends on the status of the controller and the unit at that specific moment.

PRG — Key, to enter the scroll list of user parameters, to confirm a parameter modification and to return to normal operation.

mute — Key, to de-activate the buzzer in the case of an alarm.

▲ — Key, to scroll through the list of direct or user parameters or to raise a setting.

☼ — Key, to start the unit in heating mode or to switch the unit off when heating mode is active. (only EUWY models)

SEL — Key, to enter the scroll list of direct parameters or to switch between a parameter's code and its value.

❄ — Key, to start the unit in cooling mode or to switch the unit off when cooling mode is active.

▼ — Key, to scroll through the list of direct or user parameters or to lower a setting.

LEDs provided on the controller:

The controller provides five LEDs one of which, the left comp LED, is not used.

comp — LED, indicates the status of the compressor. The LED does not light up when the compressor is not active, blinks when the compressor cannot start up although extra load is requested (e.g. timer active) and lights up permanently when the compressor is active.

☼ — LED, indicates that heating mode is active. (only EUWY models)

❄ — LED, indicates that cooling mode is active.

x100 — LED, indicates that the value on the numeric display should be multiplied by 100.

Note:

- Temperature readout tolerance: ±1°C.
- Legibility of the numeric display may decrease in direct sunlight.

6 Capacity tables

6 - 1 Cooling capacity tables

Tamb (°C)		20		25		30		35		40	
LWE (°C)	MODEL	CC	PI	CC	PI	CC	PI	CC	PI	CC	PI
5	5 KZ	9.60	2.80	9.10	3.10	8.70	3.43	8.30	3.75	7.80	4.06
	8 KZ	19.6	5.63	18.3	6.05	17.0	6.62	15.8	7.28	14.5	8.03
	10 KZ	23.8	6.39	22.4	6.95	21.0	7.60	19.6	8.34	18.3	9.19
	12 KZ	28.7	8.3	27.0	9.1	25.2	10.0	23.4	11.0	21.7	12.0
	16 KZ	39.2	11.4	36.6	12.2	34.0	13.3	31.6	14.6	29.0	16.1
	20 KZ	45.3	12.3	42.7	13.3	40.0	14.6	37.3	16.0	34.9	17.5
	24 KZ	57.4	16.8	54.0	18.4	50.4	20.0	46.8	22.1	43.4	24.1
7	5 KZ	10.1	2.82	9.90	3.13	9.50	3.45	9.10	3.77	8.60	4.07
	8 KZ	21.0	5.74	19.7	6.19	18.4	6.73	17.1	7.38	15.8	8.14
	10 KZ	25.2	6.52	23.8	7.08	22.4	7.74	21.0	8.49	19.6	9.32
	12 KZ	30.3	8.5	28.6	9.3	26.8	10.2	25.0	11.3	23.3	12.3
	16 KZ	42.0	11.6	39.4	12.5	36.8	13.5	34.2	14.8	31.6	16.3
	20 KZ	48.0	12.6	45.3	13.6	42.7	14.8	40.0	16.2	37.3	17.8
	24 KZ	60.6	17.1	57.2	18.8	53.6	20.6	50.0	22.6	46.6	24.7
10	5 KZ	11.3	2.84	11.2	3.16	10.7	3.47	10.3	3.79	9.80	4.10
	8 KZ	23.3	5.92	21.9	6.37	20.5	6.92	19.1	7.59	17.8	8.34
	10 KZ	27.3	6.72	25.9	7.28	24.4	7.95	23.0	8.70	21.5	9.53
	12 KZ	32.7	8.9	30.9	9.8	29.2	10.7	27.4	11.6	25.7	12.7
	16 KZ	46.6	12.0	43.8	12.9	41.0	14.0	38.2	15.3	35.6	16.7
	20 KZ	52.0	13.0	49.3	14.0	46.5	15.3	43.8	16.7	41.0	18.2
	24 KZ	65.4	18.1	61.8	19.7	58.4	21.6	54.8	23.4	51.4	25.4
13	5 KZ	11.5	2.86	11.3	3.18	11.0	3.49	10.6	3.81	10.2	4.12
	8 KZ	25.5	6.06	24.0	6.53	22.6	7.07	21.2	7.75	19.7	8.50
	10 KZ	29.4	6.90	27.9	7.48	26.4	8.14	25.0	8.90	23.5	9.74
	12 KZ	35.1	9.2	33.3	10.1	31.6	11.0	29.8	12.0	28.0	13.0
	16 KZ	51.0	12.3	48.0	13.3	45.2	14.3	42.4	15.6	39.4	17.1
	20 KZ	56.0	13.4	53.1	14.4	50.3	15.7	47.6	17.1	44.8	18.7
	24 KZ	70.2	18.8	66.6	20.5	63.2	22.3	59.6	24.2	56.0	26.2
16	5 KZ	11.7	2.89	11.5	3.21	11.2	3.54	10.9	3.86	10.5	4.16
	8 KZ	27.8	6.22	26.3	6.68	24.7	7.26	23.2	7.94	21.7	8.71
	10 KZ	31.5	7.09	30.0	7.66	28.5	8.33	27.0	9.09	25.4	9.9
	12 KZ	37.5	9.7	35.7	10.5	34.0	11.4	32.2	12.4	30.4	13.5
	16 KZ	55.6	12.7	52.6	13.6	49.4	14.7	46.4	16.0	43.4	17.6
	20 KZ	60.0	13.7	57.1	14.8	54.3	16.1	51.4	17.5	48.4	19.1
	24 KZ	75.0	19.7	71.4	21.4	68.0	23.0	64.4	25.1	60.8	27.1
19	5 KZ	11.9	2.92	11.8	3.24	11.6	3.56	11.3	3.88	11.0	4.18
	8 KZ	30.8	6.38	29.1	6.86	27.5	7.45	25.9	8.15	24.3	8.90
	10 KZ	33.6	7.26	32.1	7.84	30.5	8.52	29.0	9.28	27.4	10.1
	12 KZ	39.9	10.0	38.1	10.8	36.3	11.8	34.6	12.8	32.8	13.8
	16 KZ	61.6	13.2	58.2	14.1	55.0	15.2	51.8	16.5	48.6	18.0
	20 KZ	64.0	14.1	61.1	15.2	58.1	16.5	55.2	17.9	52.2	19.5
	24 KZ	79.8	20.4	76.2	22.1	72.6	24.0	69.2	25.8	65.6	27.9

3TW55172-1D

SYMBOLS

CC : Cooling capacity (kW)
PI : Power input (kW)
LWE : Leaving Water Evaporator temperature (°C)
Tamb : Ambient temperature (°C)

NOTES

1 **Cooling capacity**
Capacity is according to Eurovent rating standard 6/C/003-2003 and valid for chilled water range Dt = 3 - 8°C.

2 **Power input**
Power input is total input according to Eurovent rating standard 6/C/003-2003.

6 Capacity tables

6 - 1 Cooling capacity tables

Tamb (°C)		20		25		30		35		40	
LWE (°C)	MODEL	CC	PI	CC	PI	CC	PI	CC	PI	CC	PI
-10	5 KZ	5.85	2.65	5.35	2.97	4.95	3.29	4.55	3.61		
	8 KZ	10.01	4.71	8.58	5.16	7.15	5.70	6.66	6.44		
	10 KZ	13.3	5.36	11.9	5.91	10.5	6.47	9.10	7.20		
	12 KZ	16.7	6.96	15.0	7.77	13.2	8.43	11.4	9.4		
	16 KZ	20.0	9.43	17.2	10.3	14.3	11.4	13.3	12.9		
	20 KZ	25.3	10.2	22.7	11.3	20.0	12.3	17.3	13.7		
	24 KZ	33.4	14.0	30.0	15.6	26.4	15.7	22.8	17.7		
-7	5 KZ	6.60	2.67	6.10	3.00	5.70	3.32	5.30	3.64	4.80	4.03
	8 KZ	11.2	4.90	9.90	5.35	8.60	5.89	8.00	6.61	7.50	7.31
	10 KZ	15.4	5.58	14.0	6.13	12.6	6.70	11.2	7.44	10.5	8.33
	12 KZ	19.1	7.24	17.4	8.05	15.6	8.72	13.8	9.7	12.1	10.7
	16 KZ	22.4	9.82	19.8	10.7	17.2	11.8	16.0	13.2	13.4	14.6
	20 KZ	29.3	10.7	26.7	11.7	24.0	12.8	21.3	14.2	20.0	15.9
	24 KZ	38.2	14.5	34.8	16.1	31.2	16.6	27.6	18.6	24.2	20.6
-4	5 KZ	7.35	2.70	6.85	3.02	6.45	3.34	6.05	3.67	5.55	4.04
	8 KZ	13.3	5.08	12.0	5.53	10.7	6.08	10.0	6.79	8.65	7.51
	10 KZ	17.5	5.79	16.1	6.34	14.7	6.93	13.3	7.67	12.5	8.55
	12 KZ	21.5	7.51	19.8	8.33	18.0	9.00	16.2	10.0	14.5	11.0
	16 KZ	26.6	10.2	24.0	11.1	21.4	12.2	19.9	13.6	17.3	15.0
	20 KZ	33.3	11.1	30.7	12.1	28.0	13.2	25.3	14.6	23.7	16.3
	24 KZ	43.0	15.1	39.6	16.7	36.0	17.4	32.4	19.5	29.0	21.5
-1	5 KZ	8.10	2.73	7.60	3.05	7.20	3.37	6.80	3.69	6.30	4.06
	8 KZ	15.4	5.26	14.1	5.71	12.8	6.26	11.9	6.96	10.6	7.69
	10 KZ	19.6	5.99	18.2	6.55	16.8	7.16	15.4	7.90	14.4	8.76
	12 KZ	23.9	7.78	22.2	8.61	20.4	9.28	18.6	10.3	16.9	11.3
	16 KZ	30.8	10.6	28.2	11.5	25.6	12.5	23.8	13.9	21.2	15.4
	20 KZ	37.3	11.5	34.7	12.5	32.0	13.7	29.3	15.1	27.4	16.7
	24 KZ	47.8	15.7	44.4	17.3	40.8	18.3	37.2	20.3	33.8	22.4
2	5 KZ	8.85	2.76	8.35	3.08	7.95	3.40	7.55	3.72	7.05	4.07
	8 KZ	17.5	5.43	16.2	5.89	14.9	6.44	13.9	7.12	12.6	7.88
	10 KZ	21.7	6.20	20.3	6.75	18.9	7.38	17.5	8.12	16.4	8.98
	12 KZ	26.3	8.04	24.6	8.87	22.8	9.55	21.0	10.6	19.3	11.6
	16 KZ	35.0	10.9	32.4	11.8	29.8	12.9	27.7	14.3	25.1	15.8
	20 KZ	41.3	11.9	38.7	12.9	36.0	14.1	33.3	15.5	31.1	17.1
	24 KZ	52.6	16.2	49.2	17.9	45.6	19.2	42.0	21.2	38.6	23.2

3TW55172-2

SYMBOLS

CC : Cooling capacity (kW)

PI : Power input (kW)

LWE : Leaving Water Evaporator temperature (°C)

Tamb : Ambient temperature (°C)

CONDITIONS:

1 **Cooling capacity**
Capacity is according to Eurovent rating standard 6/C/003-2003 and valid for chilled water range Dt = 3 - 8°C.

2 **Power input**
Power input is total input according to Eurovent rating standard 6/C/003-2003.

6 Capacity tables

6 - 2 Heating capacity tables

Tamb (°CDB)		-7		-3		0		3		7		10		13	
LWC (°C)	MODEL	HC	PI	HC	PI	HC	PI	HC	PI	HC	PI	HC	PI	HC	PI
35	5 KZ	8.60	3.44	9.70	3.58	10.6	3.63	11.4	3.67	12.6	3.72	13.4	3.76	14.3	3.80
	8 KZ	12.9	5.79	14.5	5.83	15.8	5.86	17.2	5.87	19.1	5.90	20.6	5.91	22.2	5.92
	10 KZ	15.0	7.28	17.5	7.30	19.4	7.31	21.3	7.32	23.8	7.31	25.7	7.31	27.6	7.31
	12 KZ	16.9	8.63	19.7	8.65	21.8	8.66	23.9	8.66	26.8	8.66	28.9	8.65	31.0	8.63
	16 KZ	25.8	11.6	29.0	11.7	31.6	11.8	34.4	11.8	38.2	11.9	41.2	11.9	44.4	12.0
	20 KZ	28.8	14.0	33.5	14.0	37.2	14.1	40.8	14.1	45.6	14.1	49.3	14.2	52.9	14.2
	24 KZ	33.8	17.3	39.4	17.4	43.6	17.4	47.8	17.4	53.6	17.5	57.8	17.5	62.0	17.5
40	5 KZ	8.30	3.94	9.40	4.00	10.3	4.04	11.1	4.08	12.2	4.14	13.1	4.18	14.0	4.22
	8 KZ	12.6	6.34	14.2	6.38	15.5	6.41	16.9	6.44	18.8	6.46	20.3	6.48	21.9	6.49
	10 KZ	15.1	8.12	17.6	8.13	19.5	8.15	21.4	8.15	23.9	8.15	25.8	8.15	27.7	8.14
	12 KZ	17.0	9.62	19.8	9.64	21.9	9.65	24.1	9.65	26.9	9.64	29.0	9.63	31.1	9.62
	16 KZ	25.2	12.7	28.4	12.8	31.0	12.9	33.8	12.9	37.6	13.0	40.6	13.1	43.8	13.1
	20 KZ	28.9	15.6	33.7	15.6	37.4	15.7	41.0	15.7	45.8	15.7	49.5	15.8	53.1	15.8
	24 KZ	34.0	19.3	39.6	19.3	43.8	19.4	48.2	19.4	53.8	19.4	58.0	19.5	62.2	19.5
45	5 KZ	7.90	4.36	9.10	4.42	9.90	4.46	10.8	4.50	11.9	4.56	12.8	4.59	13.6	4.63
	8 KZ	12.3	6.89	13.9	6.93	15.2	6.96	16.6	6.99	18.5	7.01	20.0	7.03	21.6	7.04
	10 KZ	15.2	8.95	17.7	8.97	19.6	8.97	21.5	8.98	24.0	8.98	25.9	8.98	27.8	8.98
	12 KZ	17.1	10.6	19.9	10.6	22.1	10.6	24.2	10.6	27.0	10.7	29.1	10.7	31.3	10.7
	16 KZ	24.6	13.8	27.8	13.9	30.4	14.0	33.2	14.0	37.0	14.1	40.0	14.2	43.2	14.2
	20 KZ	29.1	17.2	33.9	17.2	37.6	17.3	41.2	17.3	46.0	17.3	49.6	17.4	53.3	17.4
	24 KZ	34.2	21.3	39.8	21.3	44.2	21.4	48.4	21.4	54.0	21.4	58.2	1.4	62.6	21.4
50	5 KZ			8.80	4.83	9.60	4.87	10.5	4.92	11.6	4.97	12.4	5.01	13.3	5.05
	8 KZ			13.6	7.50	14.9	7.53	16.3	7.55	18.2	7.58	19.7	7.59	21.2	7.60
	10 KZ			17.8	9.80	19.7	9.81	21.6	9.81	24.1	9.82	26.0	9.82	27.9	9.81
	12 KZ			20.1	11.6	22.2	11.6	24.3	11.6	27.1	11.6	29.3	11.6	31.4	11.6
	16 KZ			27.2	15.0	29.8	15.1	32.6	15.2	36.4	15.2	39.4	15.3	42.4	15.3
	20 KZ			34.1	18.8	37.8	18.9	41.4	18.9	46.2	18.9	49.8	19.0	53.5	19.0
	24 KZ			40.2	23.3	44.4	23.3	48.6	23.4	54.2	23.4	58.6	23.4	62.8	23.4

3TW55172-1D

SYMBOLS

HC : Heating capacity (kW)
LWC : Leaving condenser water temperature (kW)
PI : Power input (kW)
Tamb : Ambient temperature dry bulb (°CDB)

NOTES

1 **Heating capacity**
Capacity is according to Eurovent rating standard 6/C/003-2003 and valid for chilled water range Dt = 3 - 8°C.

2 **Power input**
Power input is total input according to Eurovent rating standard 6/C/003-2003.

NOTES

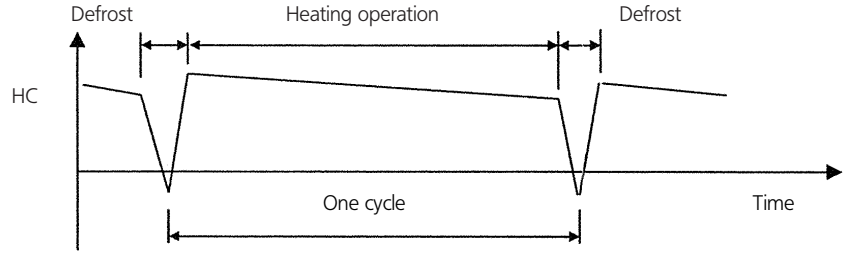
The heating capacities tabulated do not include capacity drop during frosting period and defrosting operation.
Namely, the integrated heating capacities in consideration with capacity drop during frosting period and defrosting operation are obtained from the following formula.

Integrated heating capacity = (Capacity tabulated) x Integrated correction factor during frosting period

Integrated heating capacity means that heating capacity during one cycle (between defrosting period and defrosting period) as shown below, which is integrated and converted to heating capacity per hour.
Integrated correction factor

Entering air temp (°C) RH 85%	-7	-5	-3	0	3	5	7
Correction factors	0,85	0,86	0,86	0,87	0,89	0,91	1

Integrated heating capacity graph:



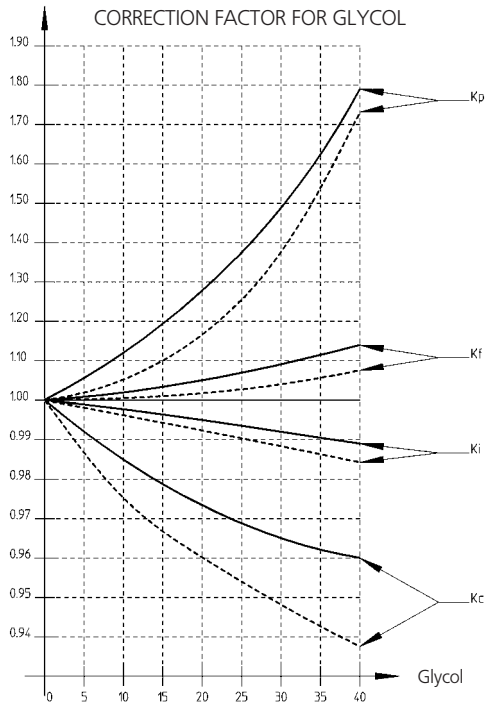
In case the surface of the heat exchanger is covered with snow, heating capacity drops temporarily although it differs with outdoor temperature (°CDB), relative humidity (RH) and frosting volume.

6 Capacity tables

6 - 3 Capacity correction factor

Required glycol concentration

Type	Concentration (wt%)	0	10	20	30	40
Ethylene glycol	Freezing point °C	0	-4	-9	-16	-23
	Minimum LWE °C	5	2	0	-5	-11
Propylene glycol	Freezing point °C	0	-3	-7	-13	-22
	Minimum LWE °C	5	3	-2	-4	-10



Legend:
Ethylene glycol
Propylene glycol

Kc Correction on cooling capacity
Ki Correction on power input
Kf Correction on flow rate
Kp Correction on pressure drop

4TW54179-1

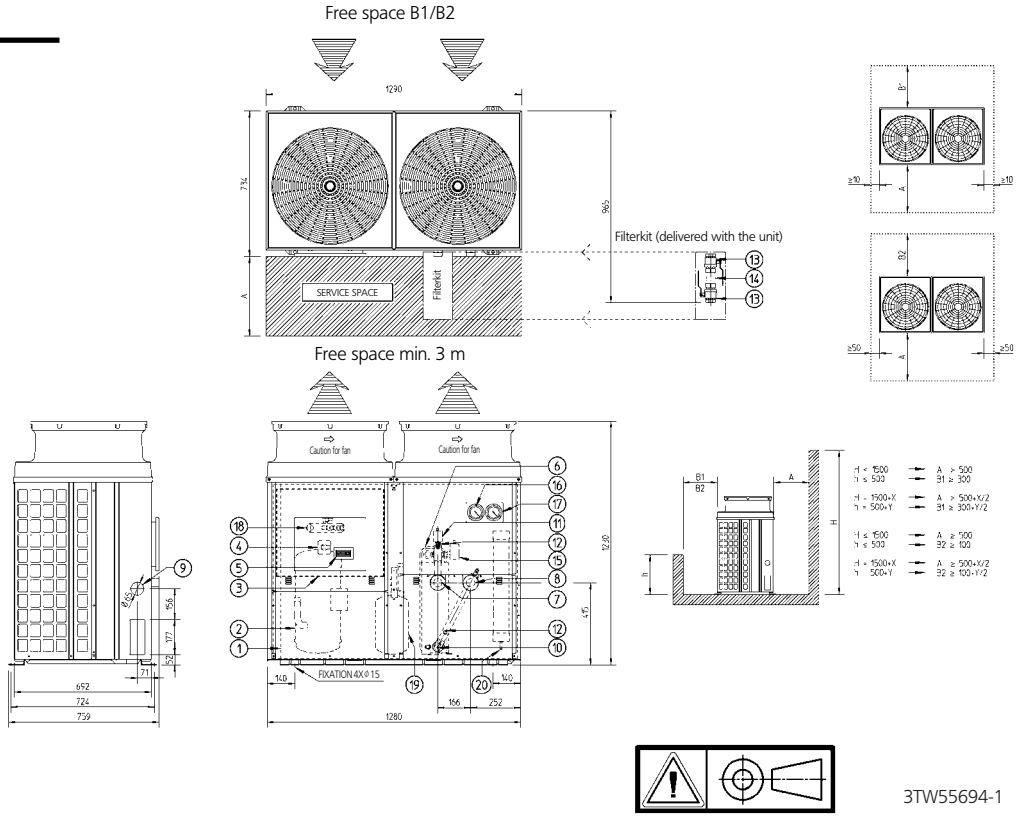
7 Dimensional drawing & centre of gravity

7 - 1 Dimensional drawing

EUWYN5-8KAZW

1 Air heat exchanger
2 Compressor
3 Switch box
4 Main switch
5 Digital display controller
6 Water heat exchanger
7 Water IN connection: 1 1/4" M BSP
8 Water OUT connection: 1 1/4" M BSP
9 Power supply intake
10 Drain
11 Air purge
12 Pressure port
13 Ball valve: 1-1/4" BSP
14 Water filter: 1-1/4" BSP
15 Flow switch
16 High pressure gauge (optional)
17 Low pressure gauge (optional)
18 4 way valve *
19 Accumulator *
20 Liquid receiver *

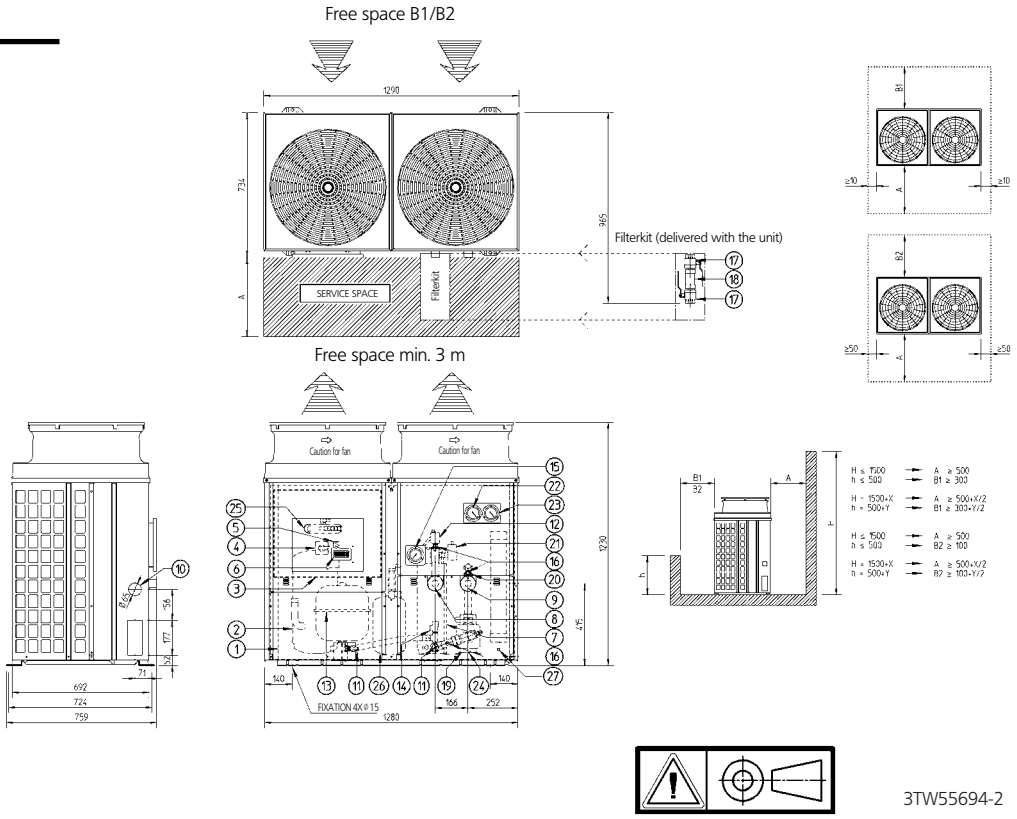
* Only for H/P models



EUWYP5-8KAZW

1 Air heat exchanger
2 Compressor
3 Switch box
4 Main switch
5 Pump switch
6 Digital display controller
7 Water heat exchanger
8 Water IN connection: 1 1/4" M BSP
9 Water OUT connection: 1 1/4" M BSP
10 Power supply intake
11 Drain
12 Air purge
13 Expansion vessel
14 Safety valve
15 Manometer (water)
16 Pressure port
17 Ball valve: 1-1/4" BSP
18 Water filter: 1-1/4" BSP
19 Pump
20 Regulation valve
21 Flow switch
22 High pressure gauge (optional)
23 Low pressure gauge (optional)
24 Pump drain
25 4 way valve *
26 Accumulator *
27 Liquid receiver *

* Only for H/P models



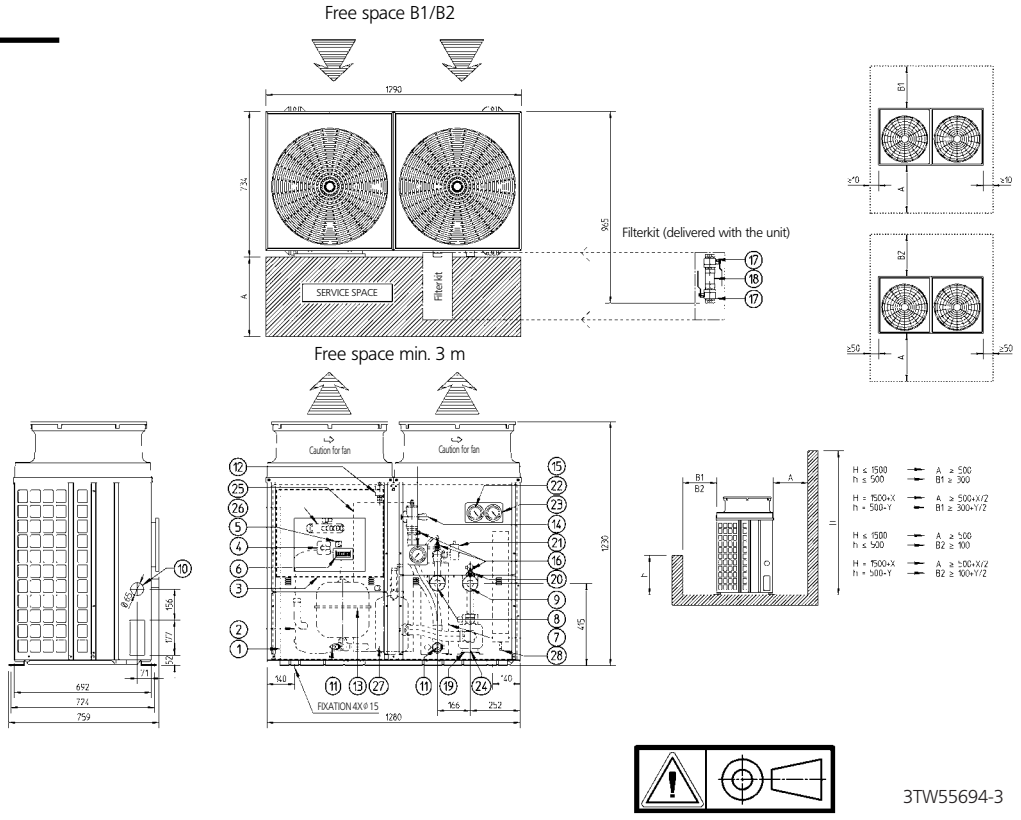
7 Dimensional drawing & centre of gravity

7 - 1 Dimensional drawing

7

EUWYB5-8KAZW

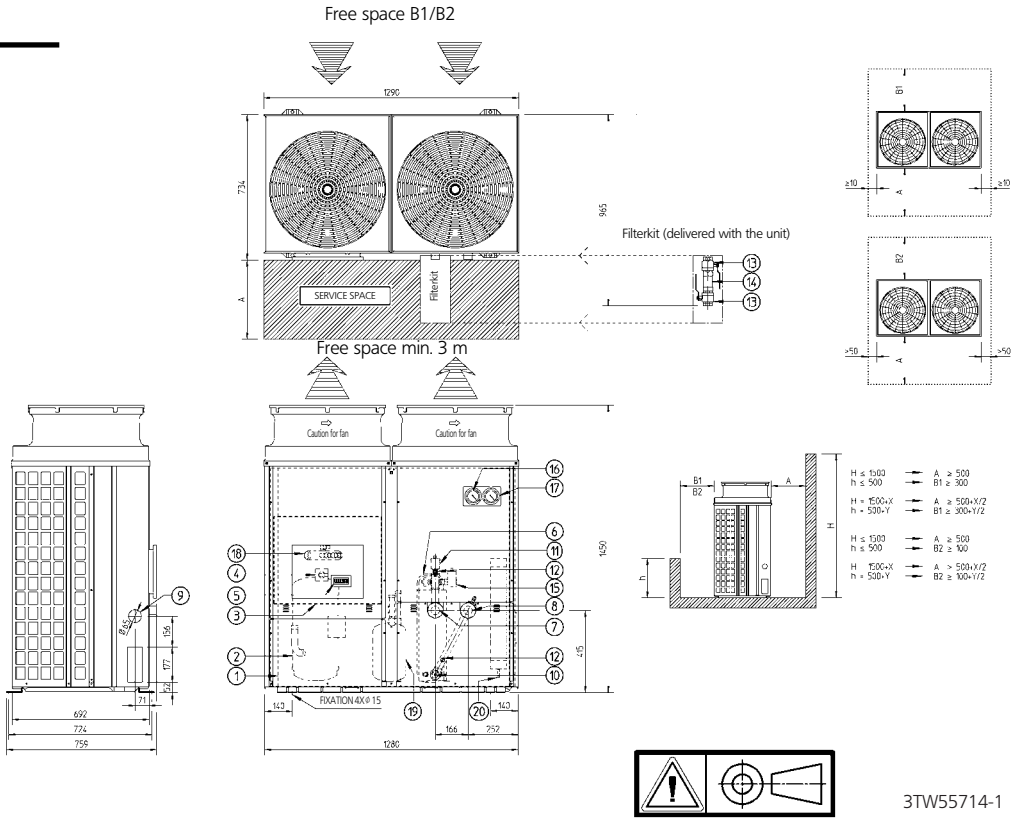
1 Air heat exchanger
2 Compressor
3 Switch box
4 Main switch
5 Pump switch
6 Digital display controller
7 Water heat exchanger
8 Water IN connection: 1 1/4" M BSP
9 Water OUT connection: 1 1/4" M BSP
10 Power supply intake
11 Drain
12 Air purge
13 Expansion vessel
14 Safety valve
15 Manometer (water)
16 Pressure port
17 Ball valve: 1-1/4" BSP
18 Water filter: 1-1/4" BSP
19 Pump
20 Regulation valve
21 Flow switch
22 High pressure gauge (optional)
23 Low pressure gauge (optional)
24 Pump drain
25 Buffer tank
26 4 way valve *
27 Accumulator *
28 Liquid receiver *
* Only for H/P models



3TW55694-3

EUWYN10-12KAZW

1 Air heat exchanger
2 Compressor
3 Switch box
4 Main switch
5 Digital display controller
6 Water heat exchanger
7 Water IN connection: 1 1/4" M BSP
8 Water OUT connection: 1 1/4" M BSP
9 Power supply intake
10 Drain
11 Air purge
12 Pressure port
13 Ball valve: 1-1/4" BSP
14 Water filter: 1-1/4" BSP
15 Flow switch
16 High pressure gauge (optional)
17 Low pressure gauge (optional)
18 4 way valve *
19 Accumulator *
20 Liquid receiver *
* Only for H/P models



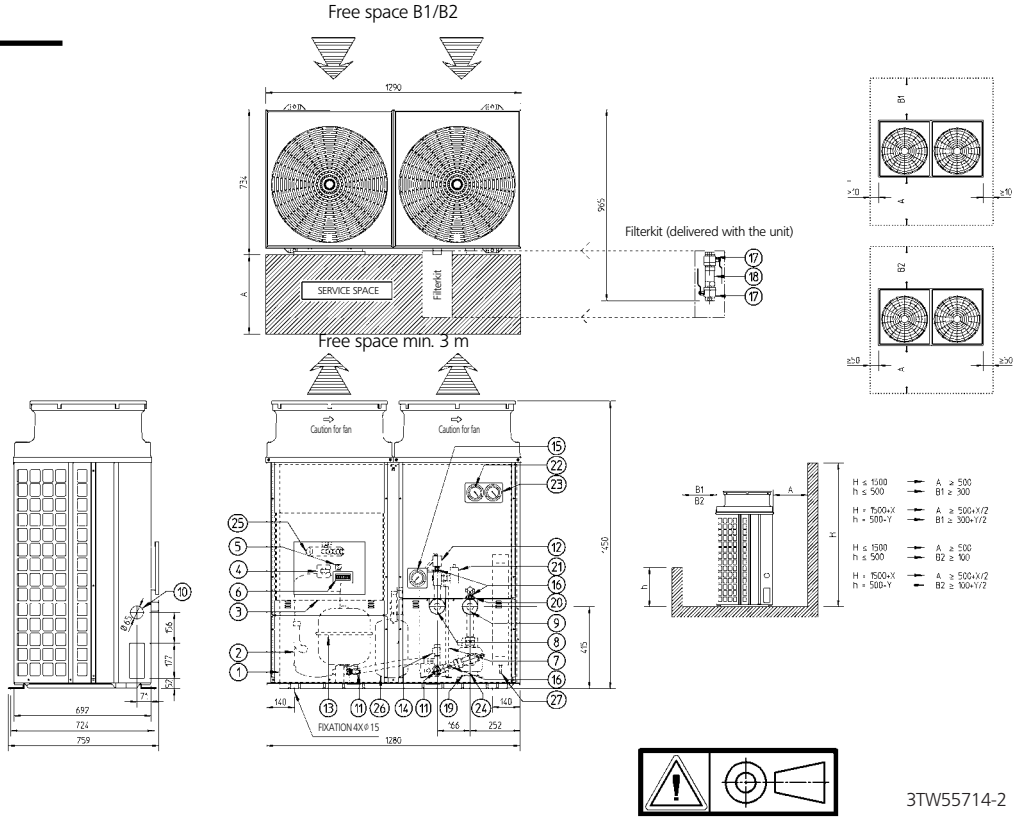
3TW55714-1

7 Dimensional drawing & centre of gravity

7 - 1 Dimensional drawing

EUWYP10-12KAZW

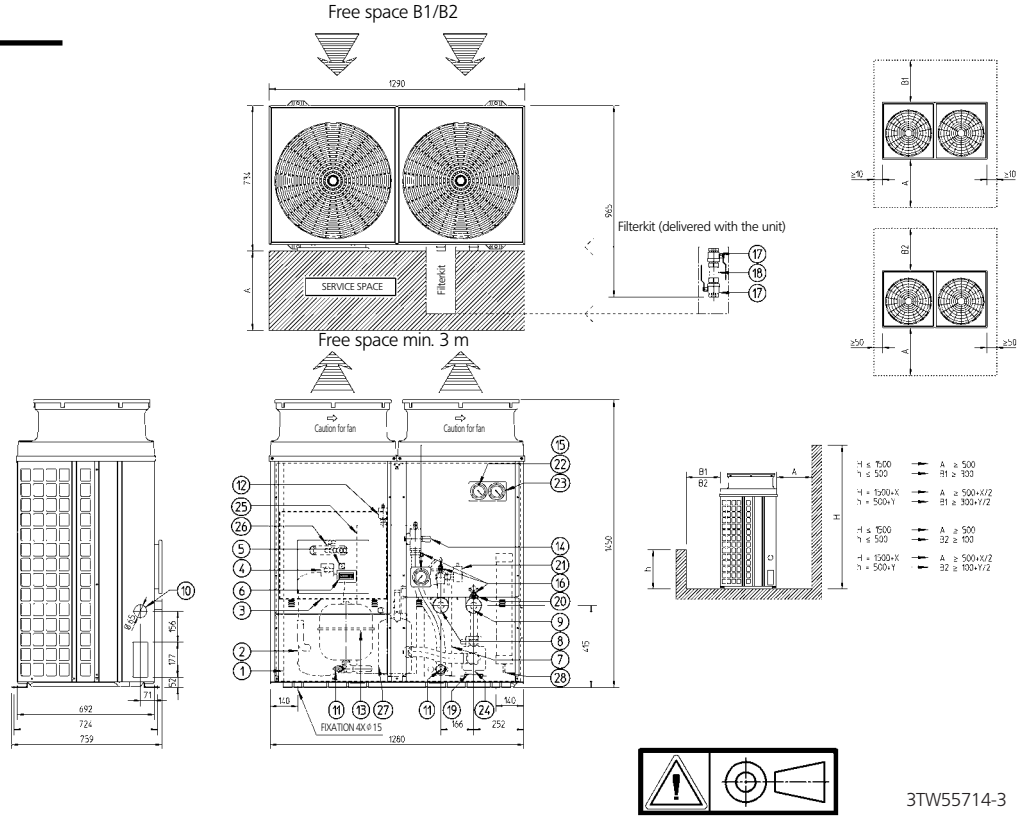
1 Air heat exchanger
2 Compressor
3 Switch box
4 Main switch
5 Pump switch
6 Digital display controller
7 Water heat exchanger
8 Water IN connection: 1 1/4" M BSP
9 Water OUT connection: 1 1/4" M BSP
10 Power supply intake
11 Drain
12 Air purge
13 Expansion vessel
14 Safety valve
15 Manometer (water)
16 Pressure port
17 Ball valve: 1-1/4" BSP
18 Water filter: 1-1/4" BSP
19 Pump
20 Regulation valve
21 Flow switch
22 High pressure gauge (optional)
23 Low pressure gauge (optional)
24 Pump drain
25 4 way valve *
26 Accumulator *
27 Liquid receiver *
* Only for H/P models



3TW55714-2

EUWYB10-12KAZW

1 Air heat exchanger
2 Compressor
3 Switch box
4 Main switch
5 Pump switch
6 Digital display controller
7 Water heat exchanger
8 Water IN connection: 1 1/4" M BSP
9 Water OUT connection: 1 1/4" M BSP
10 Power supply intake
11 Drain
12 Air purge
13 Expansion vessel
14 Safety valve
15 Manometer (water)
16 Pressure port
17 Ball valve: 1-1/4" BSP
18 Water filter: 1-1/4" BSP
19 Pump
20 Regulation valve
21 Flow switch
22 High pressure gauge (optional)
23 Low pressure gauge (optional)
24 Pump drain
25 Buffer tank
26 4 way valve *
27 Accumulator *
28 Liquid receiver *
* Only for H/P models



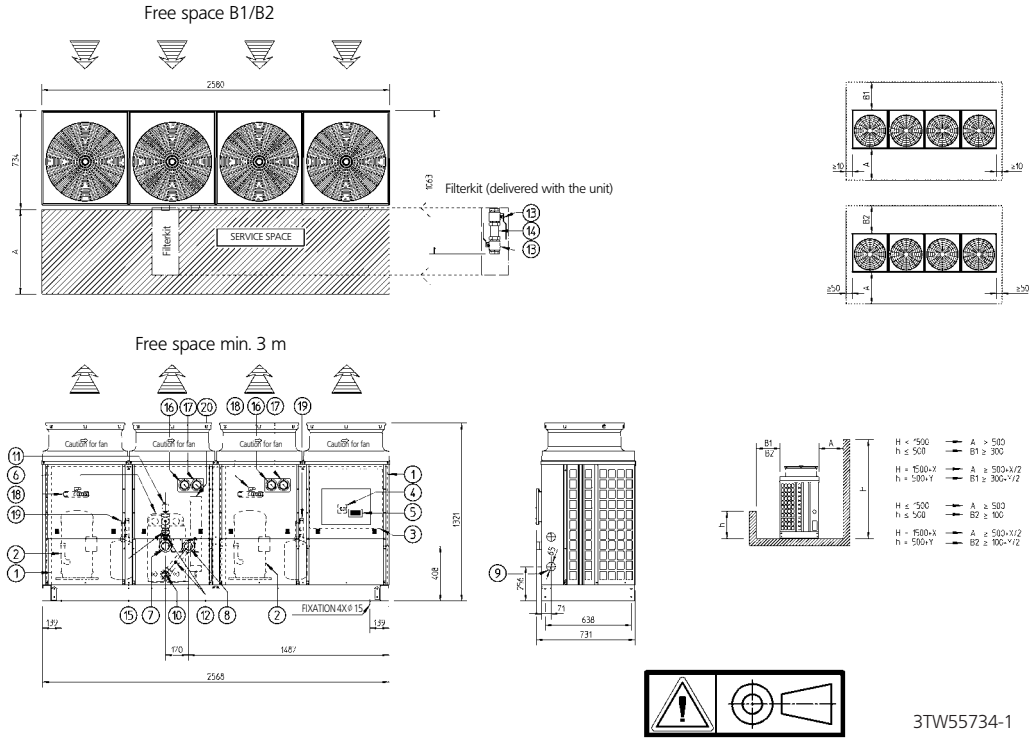
3TW55714-3

7 Dimensional drawing & centre of gravity

7 - 1 Dimensional drawing

EUWYN16KAZW

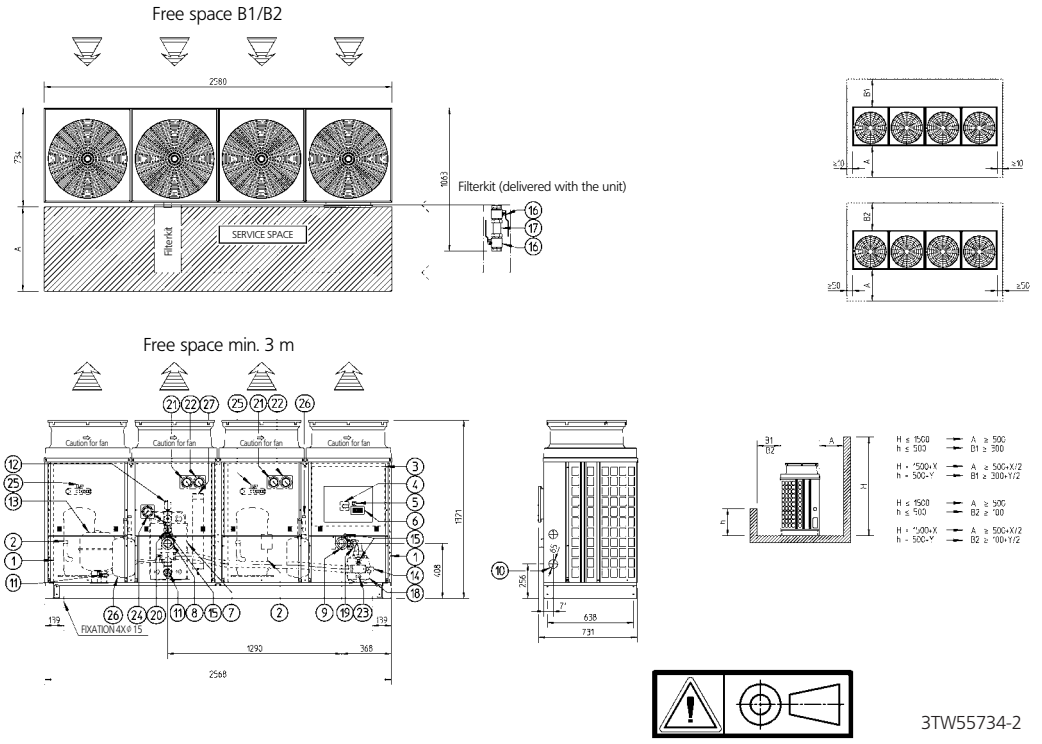
1 Air heat exchanger
2 Compressor
3 Switch box
4 Main switch
5 Digital display controller
6 Water heat exchanger
7 Water IN connection: 2" M BSP
8 Water OUT connection: 2" M BSP
9 Power supply intake
10 Drain
11 Air purge
12 Pressure port
13 Ball valve
14 Water filter
15 Flow switch
16 High pressure gauge (optional)
17 Low pressure gauge (optional)
18 4 way valve *
19 Accumulator *
20 Liquid receiver *
* Only for H/P models



3TW55734-1

EUWYP16KAZW

1 Air heat exchanger
2 Compressor
3 Switch box
4 Main switch
5 Pump switch
6 Digital display controller
7 Water heat exchanger
8 Water IN connection: 2" M BSP
9 Water OUT connection: 2" M BSP
10 Power supply intake
11 Drain
12 Air purge
13 Expansion vessel
14 Safety valve
15 Pressure port
16 Ball valve
17 Water filter
18 Pump
19 Regulation valve
20 Flow switch
21 High pressure gauge (optional)
22 Low pressure gauge (optional)
23 Pump drain
24 Water pressure gauge
25 4 way valve *
26 Accumulator *
27 Liquid receiver *
* Only for H/P models



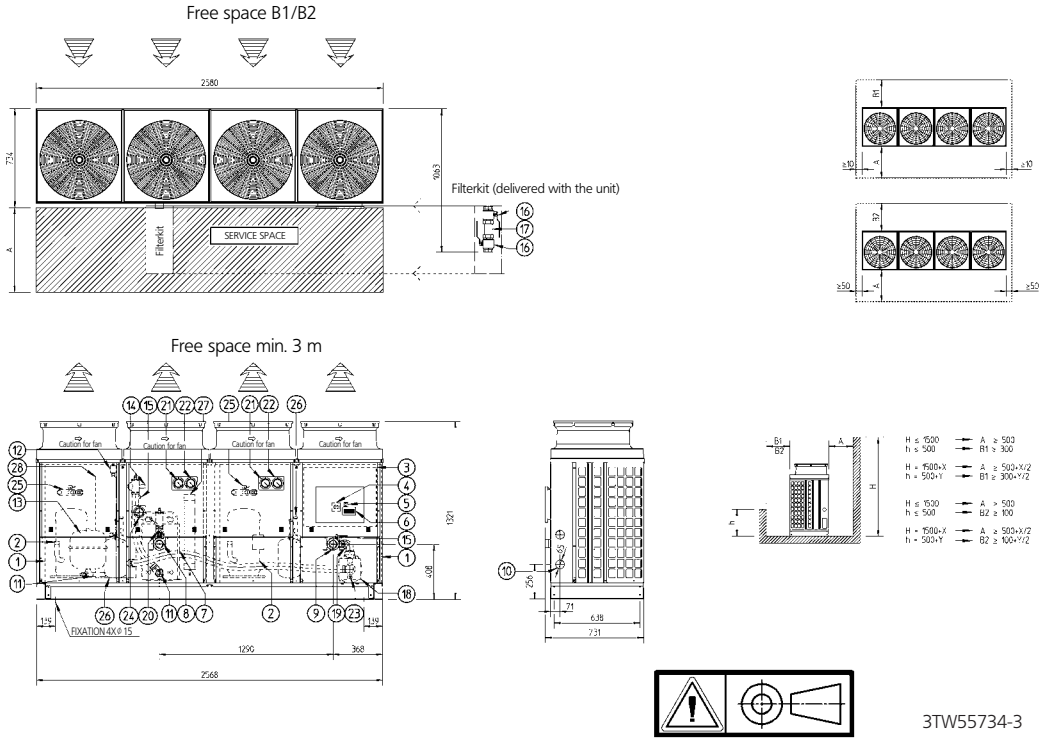
3TW55734-2

7 Dimensional drawing & centre of gravity

7 - 1 Dimensional drawing

EUWYB16KAZW

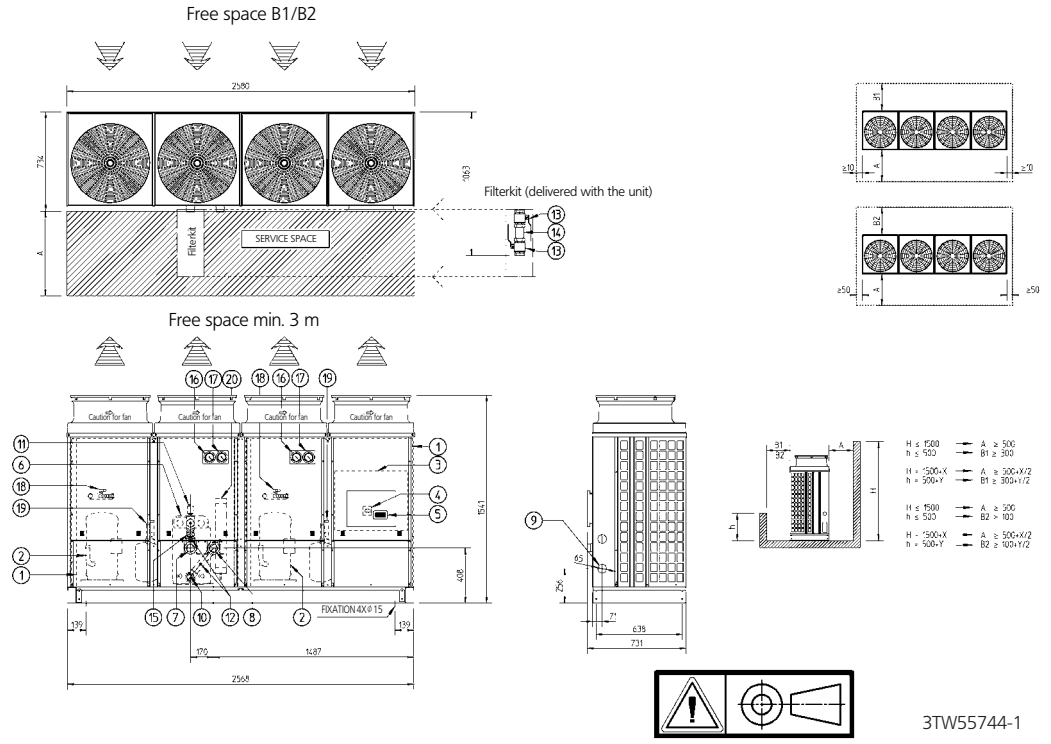
1 Air heat exchanger
2 Compressor
3 Switch box
4 Main switch
5 Pump switch
6 Digital display controller
7 Water heat exchanger
8 Water IN connection: 2" M BSP
9 Water OUT connection: 2" M BSP
10 Power supply intake
11 Drain
12 Air purge
13 Expansion vessel
14 Safety valve
15 Pressure port
16 Ball valve
17 Water filter
18 Pump
19 Regulation valve
20 Flow switch
21 High pressure gauge (optional)
22 Low pressure gauge (optional)
23 Pump drain
24 Water pressure gauge
25 4 way valve *
26 Accumulator *
27 Liquid receiver *
28 Buffer tank
* Only for H/P models



3TW55734-3

EUWYN20-24KAZW

1 Air heat exchanger
2 Compressor
3 Switch box
4 Main switch
5 Digital display controller
6 Water heat exchanger
7 Water IN connection: 2" M BSP
8 Water OUT connection: 2" M BSP
9 Power supply intake
10 Drain
11 Air purge
12 Pressure port
13 Ball valve
14 Water filter
15 Flow switch
16 High pressure gauge (optional)
17 Low pressure gauge (optional)
18 4 way valve *
19 Accumulator *
20 Liquid receiver *
* Only for H/P models



3TW55744-1

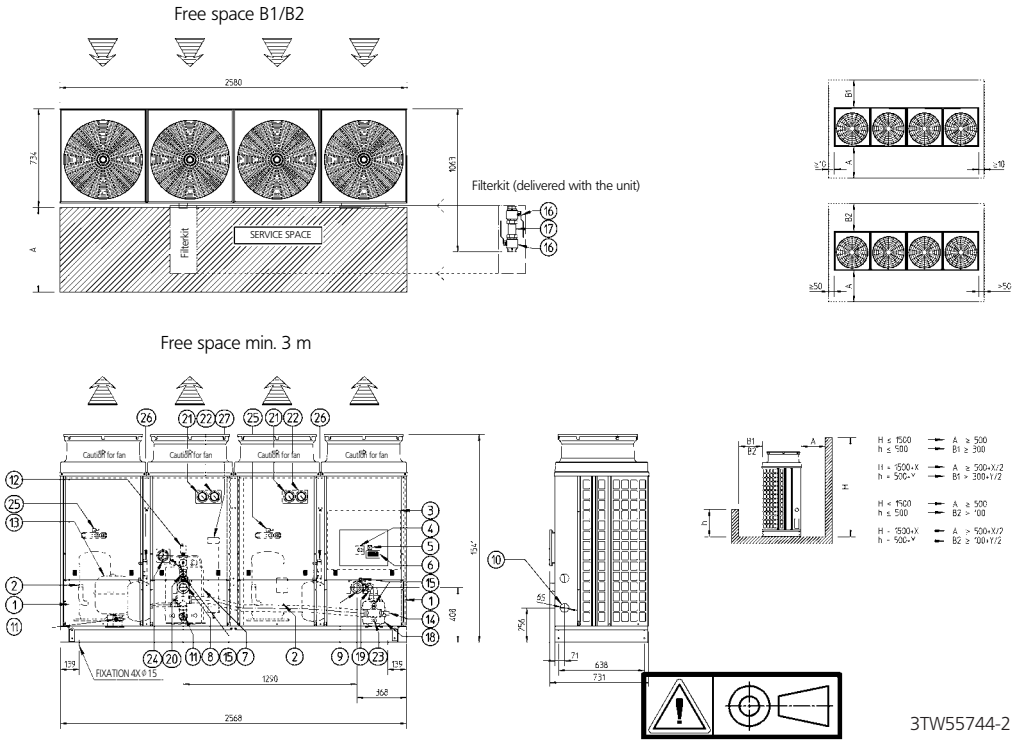
7 Dimensional drawing & centre of gravity

7 - 1 Dimensional drawing

7

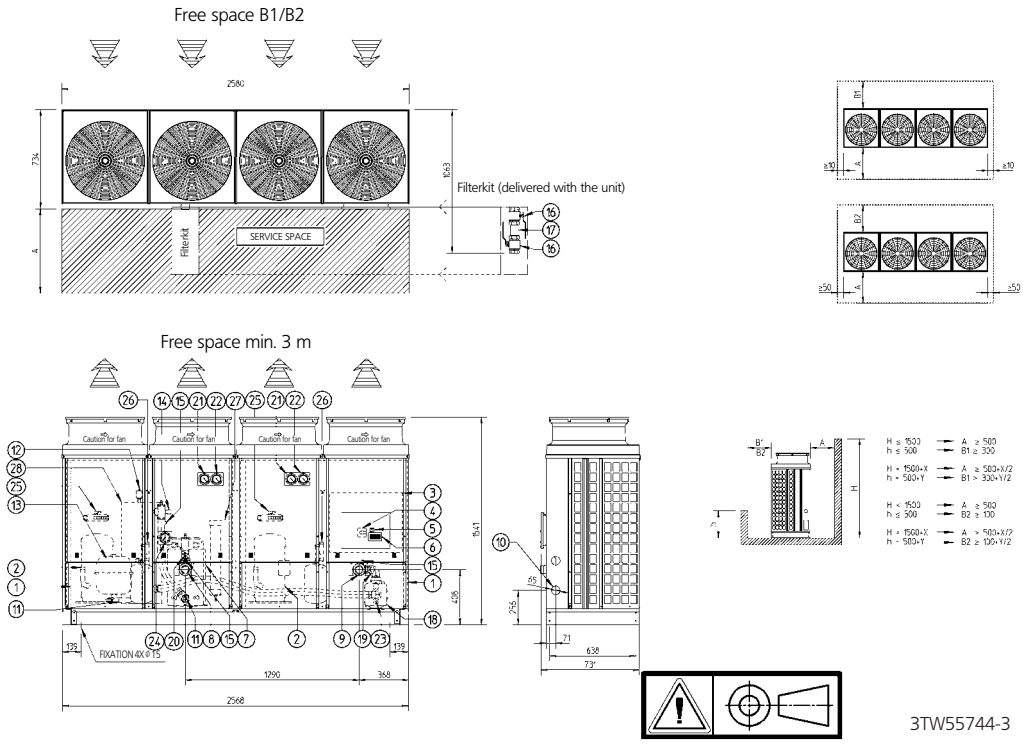
EUWYP20-24KAZW

1 Air heat exchanger
2 Compressor
3 Switch box
4 Main switch
5 Pump switch
6 Digital display controller
7 Water heat exchanger
8 Water IN connection: 2" M BSP
9 Water OUT connection: 2" M BSP
10 Power supply intake
11 Drain
12 Air purge
13 Expansion vessel
14 Safety valve
15 Pressure port
16 Ball valve
17 Water filter
18 Pump
19 Regulation valve
20 Flow switch
21 High pressure gauge (optional)
22 Low pressure gauge (optional)
23 Pump drain
24 Water pressure gauge
25 4 way valve *
26 Accumulator *
27 Liquid receiver *
* Only for H/P models



EUWYB20-24KAZW

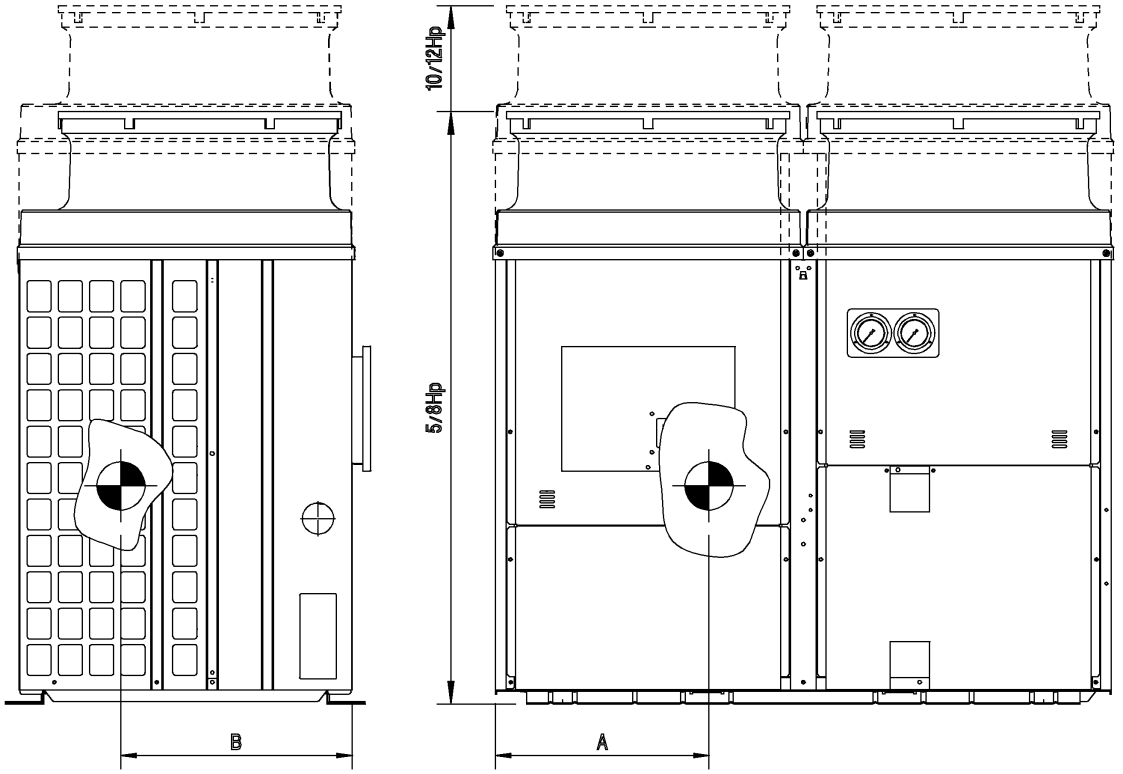
1 Air heat exchanger
2 Compressor
3 Switch box
4 Main switch
5 Pump switch
6 Digital display controller
7 Water heat exchanger
8 Water IN connection: 2" M BSP
9 Water OUT connection: 2" M BSP
10 Power supply intake
11 Drain
12 Air purge
13 Expansion vessel
14 Safety valve
15 Pressure port
16 Ball valve
17 Water filter
18 Pump
19 Regulation valve
20 Flow switch
21 High pressure gauge (optional)
22 Low pressure gauge (optional)
23 Pump drain
24 Water pressure gauge
25 4 way valve *
26 Accumulator *
27 Liquid receiver *
28 Buffer tank
* Only for H/P models



7 Dimensional drawing & centre of gravity

7 - 2 Centre of gravity

EUWY*5-12KAZW



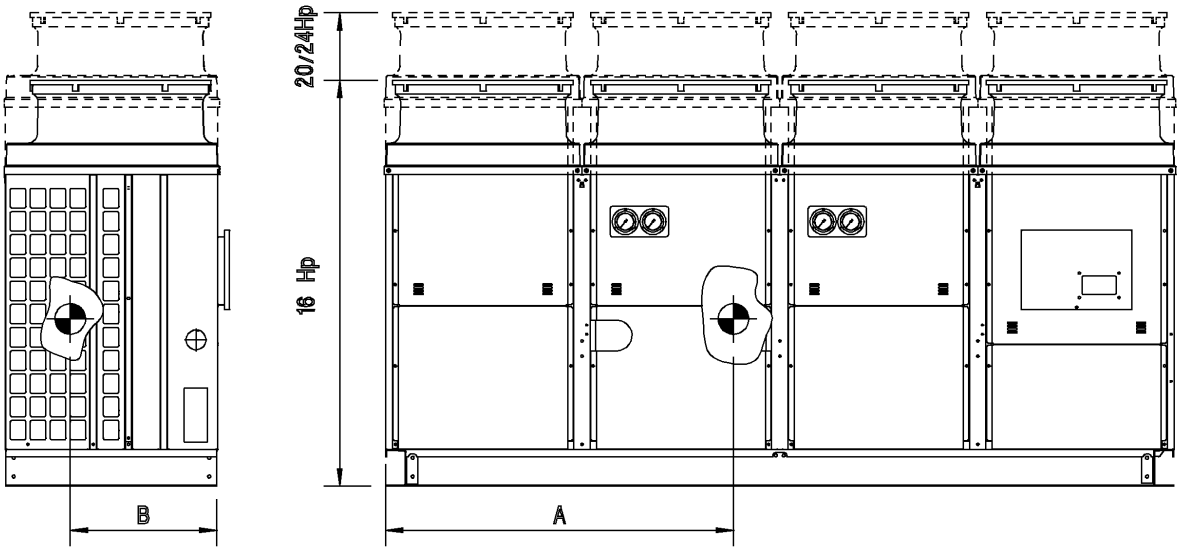
	5Hp		8Hp		10Hp		12Hp	
	A	B	A	B	A	B	A	B
B-Models	520	420	480	420	490	430	490	430
P-Models	510	420	470	420	480	430	490	430
N-Models	480	420	440	430	450	430	460	430

4TW54759-2

7 Dimensional drawing & centre of gravity

7 - 2 Centre of gravity

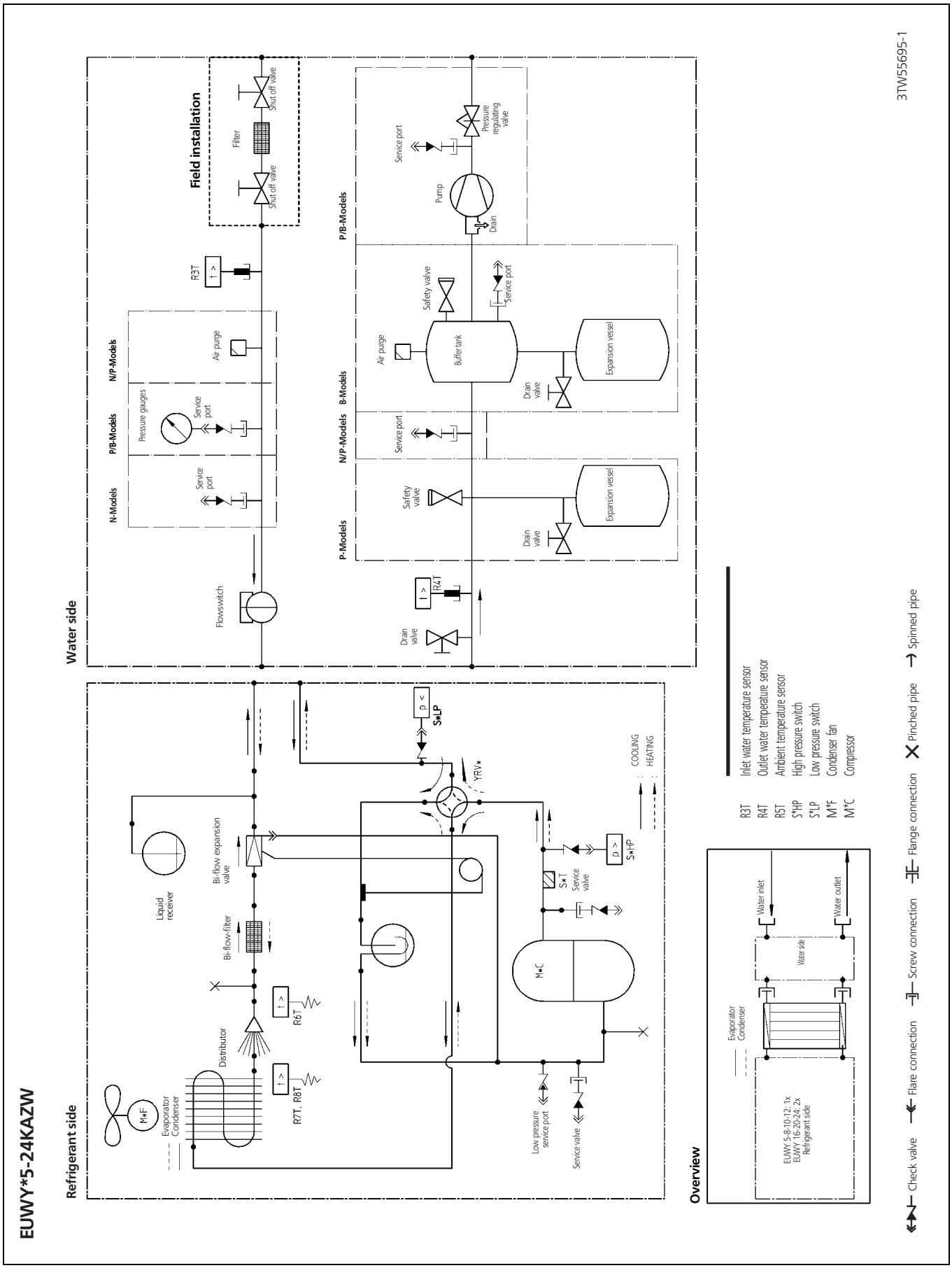
EUWY*16-24KAZW



	16Hp		20Hp		24Hp	
	A	B	A	B	A	B
B-Models	1115	435	1120	435	1115	435
P-Models	1145	435	1140	435	1135	435
N-Models	1110	430	1115	435	1110	435

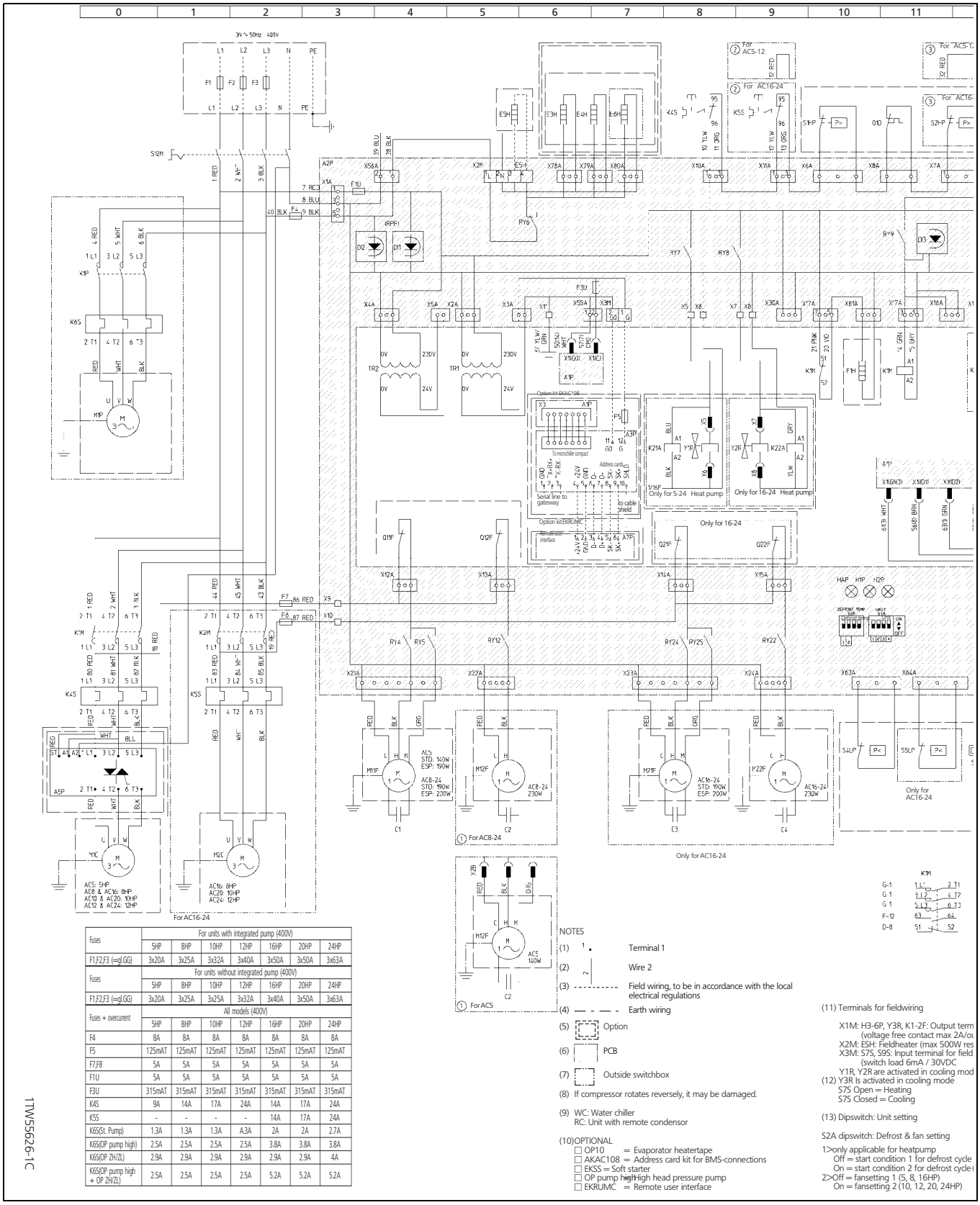
4TW54799-2

8 Piping diagram



9 Wiring Diagram

9 - 1 Wiring Diagram



Fuses	For units with integrated pump (400V)						
	5HP	8HP	10HP	12HP	16HP	20HP	24HP
F1,F2,F3 (=gLGG)	3x20A	3x25A	3x32A	3x40A	3x50A	3x50A	3x63A
Fuses	For units without integrated pump (400V)						
	5HP	8HP	10HP	12HP	16HP	20HP	24HP
F1,F2,F3 (=gLGG)	3x20A	3x25A	3x25A	3x32A	3x40A	3x50A	3x63A
Fuses + overcurrent	All models (400V)						
	5HP	8HP	10HP	12HP	16HP	20HP	24HP
F4	8A	8A	8A	8A	8A	8A	8A
F5	125mAT	125mAT	125mAT	125mAT	125mAT	125mAT	125mAT
F7,F8	5A	5A	5A	5A	5A	5A	5A
F1U	5A	5A	5A	5A	5A	5A	5A
F3U	315mAT	315mAT	315mAT	315mAT	315mAT	315mAT	315mAT
K4S	9A	14A	17A	24A	14A	17A	24A
K5S	-	-	-	-	14A	17A	24A
K6S(St. Pump)	1.3A	1.3A	1.3A	A.3A	2A	2A	2.7A
K6S(OP pump high)	2.5A	2.5A	2.5A	2.5A	3.8A	3.8A	3.8A
K6S(OP ZH/ZL)	2.9A	2.9A	2.9A	2.9A	2.9A	2.9A	4A
K6S(OP pump high + OP ZH/ZL)	2.5A	2.5A	2.5A	2.5A	5.2A	5.2A	5.2A

NOTES

(1) Terminal 1

(2) Wire 2

(3) Field wiring, to be in accordance with the local electrical regulations

(4) Earth wiring

(5) Option

(6) PCB

(7) Outside switchbox

(8) If compressor rotates reversely, it may be damaged.

(9) WC: Water chiller
RC: Unit with remote condensor

(10) OPTIONAL
☐ OP10 = Evaporator heatertape
☐ AKAC108 = Address card kit for BMS-connections
☐ EKSS = Soft starter
☐ OP pump high = High head pressure pump
☐ EKRUMC = Remote user interface

(11) Terminals for fieldwiring
X1M: H3-6P, Y3R, K1-2F: Output term
(voltage free contact max 2A/o
X2M: ESH: Fieldheater (max 500W res
X3M: S7S, S9S: Input terminal for field
(switch load 6mA / 30VDC
Y1R, Y2R are activated in cooling mod

(12) Y3R Is activated in cooling mode
S7S Open = Heating
S7S Closed = Cooling

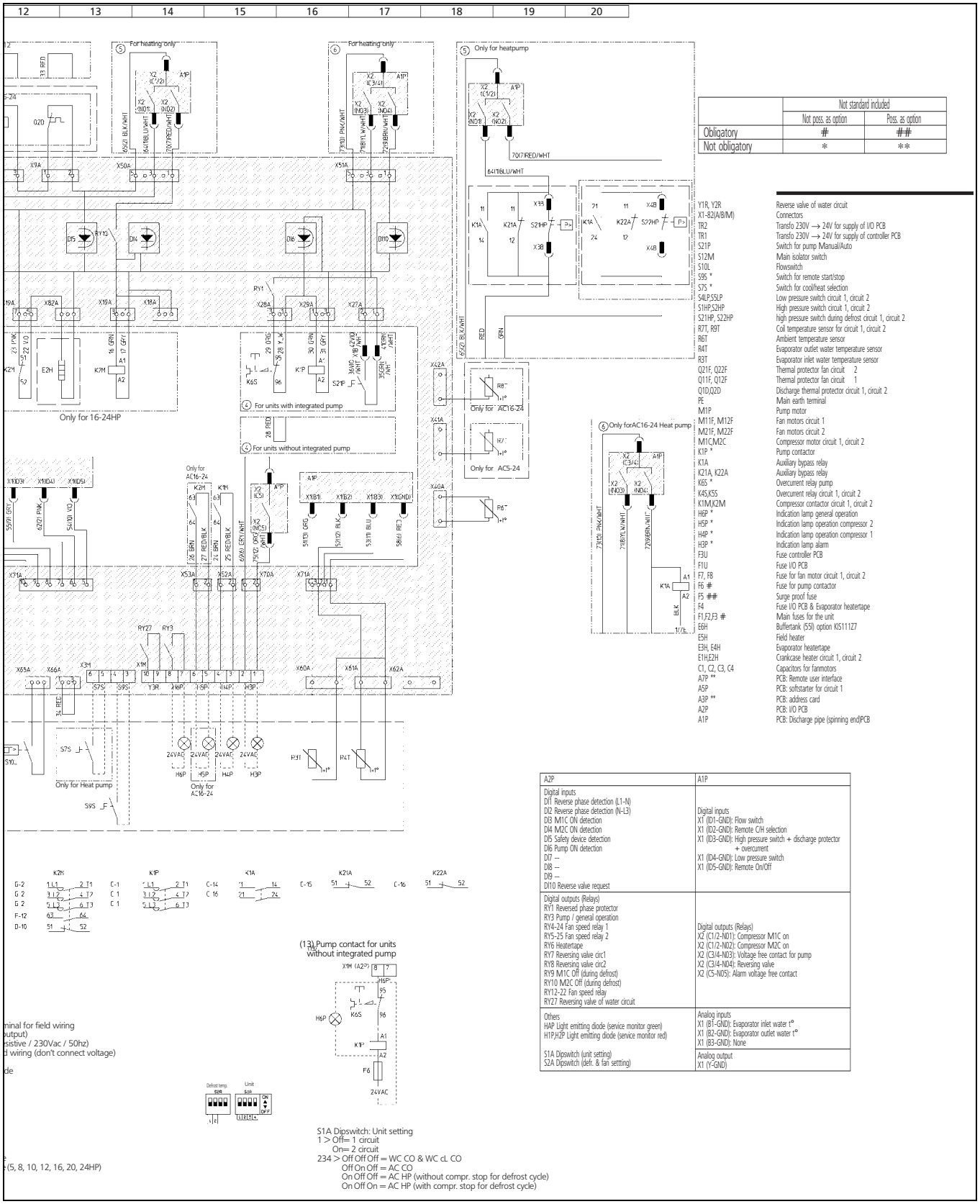
(13) Dipswitch: Unit setting

S2A dipswitch: Defrost & fan setting
1>only applicable for heatpump
Off = start condition 1 for defrost cycle
On = start condition 2 for defrost cycle
2>Off = fansetting 1 (5, 8, 16HP)
On = fansetting 2 (10, 12, 20, 24HP)

1TW55626-1C

9 Wiring Diagram

9 - 1 Wiring Diagram



	Not standard included	
	Not poss. as option	Poss. as option
Obligatory	#	##
Not obligatory	*	**

Y1R, Y2R	Reverse valve of water circuit
X1-82(A/B/M)	Connectors
TR2	Transfo 230V → 24V for supply of I/O PCB
TR1	Transfo 230V → 24V for supply of controller PCB
S21P	Switch for pump Manual/Auto
S12M	Main isolator switch
S10L	Flowswitch
S9S *	Switch for remote start/stop
S7S *	Switch for cool/heat selection
S4LP,S5LP	Low pressure switch circuit 1, circuit 2
S1HP,S2HP	High pressure switch circuit 1, circuit 2
S21HP, S22HP	high pressure switch during defrost circuit 1, circuit 2
R7T, R9T	Coil temperature sensor for circuit 1, circuit 2
R6T	Ambient temperature sensor
R4T	Evaporator outlet water temperature sensor
R3T	Evaporator inlet water temperature sensor
Q21F, Q22F	Thermal protector for fan circuit 2
Q11F, Q12F	Thermal protector for fan circuit 1
Q1D,Q2D	Discharge thermal protector circuit 1, circuit 2
PE	Main earth terminal
M1P	Pump motor
M11F, M12F	Fan motors circuit 1
M21F, M22F	Fan motors circuit 2
M1C,M2C	Compressor motor circuit 1, circuit 2
K1P *	Pump contactor
K1A	Auxiliary bypass relay
K21A, K22A	Auxiliary bypass relay
K6S *	Overcurrent relay pump
K4S,K5S	Overcurrent relay circuit 1, circuit 2
K1M,K2M	Compressor contactor circuit 1, circuit 2
H6P *	Indication lamp general operation
H5P *	Indication lamp operation compressor 2
H4P *	Indication lamp operation compressor 1
H3P *	Indication lamp alarm
F3U	Fuse controller PCB
F1U	Fuse I/O PCB
F7, F8	Fuse for fan motor circuit 1, circuit 2
F6 #	Fuse for pump contactor
F5 ##	Surge proof fuse
F4	Fuse I/O PCB & Evaporator heatertape
F1,F2,F3 #	Main fuses for the unit
E6H	Buffertank (S5I) option KIS111Z7
E5H	Field heater
E3H, E4H	Evaporator heatertape
E1H,E2H	Crankcase heater circuit 1, circuit 2
C1, C2, C3, C4	Capacitors for fanmotors
A7P **	PCB: Remote user interface
A5P	PCB: softstarter for circuit 1
A3P **	PCB: address card
A2P	PCB: I/O PCB
A1P	PCB: Discharge pipe (spinning end)PCB

A2P	A1P
Digital inputs DI1 Reverse phase detection (L1-N) DI2 Reverse phase detection (N-L3) DI3 M1C ON detection DI4 M2C ON detection DI5 Safety device detection DI6 Pump ON detection DI7 -- DI8 -- DI9 -- DI10 Reverse valve request	Digital inputs X1 (ID1-GND): Flow switch X1 (ID2-GND): Remote C/H selection X1 (ID3-GND): High pressure switch + discharge protector + overcurrent X1 (ID4-GND): Low pressure switch X1 (ID5-GND): Remote On/Off
Digital outputs (Relays) RY1 Reversed phase protector RY3 Pump / general operation RY4-24 Fan speed relay 1 RY5-25 Fan speed relay 2 RY6 Heatertape RY7 Reversing valve circ1 RY8 Reversing valve circ2 RY9 M1C Off (during defrost) RY10 M2C Off (during defrost) RY12-22 Fan speed relay RY27 Reversing valve of water circuit	Digital outputs (Relays) X2 (C1/2-N01): Compressor M1C on X2 (C1/2-N02): Compressor M2C on X2 (C3/4-N03): Voltage free contact for pump X2 (C3/4-N04): Reversing valve X2 (C5-N05): Alarm voltage free contact
Others HAP Light emitting diode (service monitor green) H1P,H2P Light emitting diode (service monitor red)	Analog inputs X1 (B1-GND): Evaporator inlet water t° X1 (B2-GND): Evaporator outlet water t° X1 (B3-GND): None
S1A Dipswitch (unit setting) S2A Dipswitch (defr. & fan setting)	Analog output X1 (Y-GND)

10 Sound data

10 - 1 Sound power spectrum

	Sound power Lw per Octave band (dB)								Total (dBA)
	63	125	250	500	1000	2000	4000	8000	LwA
EUWA/Y(*)5K(A)ZW1	70	71	67	64	61	59	53	46	67
EUWA/Y(*)8K(A)ZW1	78	76	72	77	68	64	58	52	76
EUWA/Y(*)10K(A)ZW1	82	91	77	77	71	67	63	57	78
EUWA/Y(*)12K(A)ZW1	82	91	77	77	71	67	63	57	78
EUWA/Y(*)16K(A)ZW1	81	79	75	80	71	67	61	55	79
EUWA/Y(*)20K(A)ZW1	85	94	80	80	74	70	66	60	81
EUWA/Y(*)24K(A)ZW1	85	94	80	80	74	70	66	60	81

4TW54757-1D

NOTES

1. Data valid at nominal operation condition
2. Measured according ISO3744

11 Installation

11 - 1 Water charge, flow and quality

Be sure the water quality is in accordance with the specifications below:

ITEMS	Cooled water		Tendency if out of criteria
	Circulating water (below 20°C)	Water supply	
Items to be controlled:			
- pH at 25°C	6.8 - 8.0	6.8 - 8.0	Corrosion + scale
- Electrical conduct			
(mS/m) at 25°C	Below 40	Below 30	Corrosion + scale
(μS/cm) at 25°C	—	—	Corrosion + scale
- Chloride ion (mg Cl^-/l)	Below 50	Below 50	Corrosion
- Sulfate ion (mg SO_4^{2-}/l)	Below 50	Below 50	Corrosion
- M-alkalinity (pH 4.8) (mg SO_3/l)	Below 50	Below 50	Scale
- Total hardness (mg $CaCO_3$/l)	Below 70	Below 70	Scale
- Calcium hardness (mg $CaCO_3$/l)	Below 50	Below 50	Scale
- Silica ion (mg SiO_2/l)	Below 30	Below 30	Scale
Items to be referred to:			
- Iron (mg Fe/l)	Below 1.0	Below 0.3	Corrosion + scale
- Copper (mg Cu/l)	Below 1.0	Below 0.1	Corrosion
- Sulfite ion (mg S^{2-}/l)	Not detectable	Not detectable	Corrosion
- ammonium ion (mg NH_4^+/l)	Below 1.0	Below 0.1	Corrosion
- Remaining chloride (mg Cl/l)	Below 0.3	Below 0.3	Corrosion
- Free carbide (mg SO_2/l)	Below 4.0	Below 4.0	Corrosion
- Stability index	—	—	Corrosion + scale

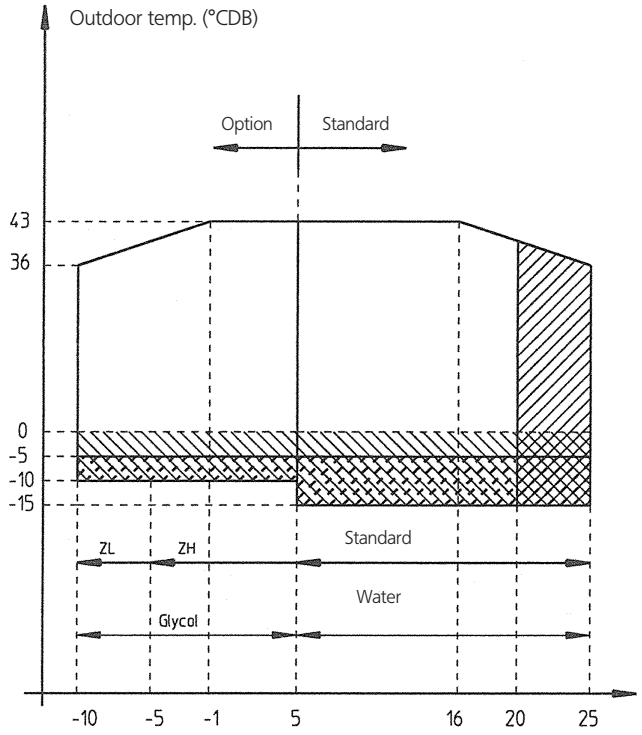
Names, definitions and units are according to JIS K 0101. Units and figures between brackets are old units published as reference only.

12 Operation range

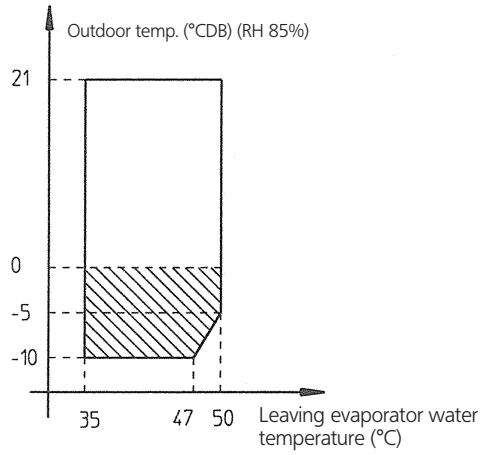
EUWY*5-24KAZW

12

Cooling mode



Heating mode



: Pull down area

: Protect the water circuit against freezing

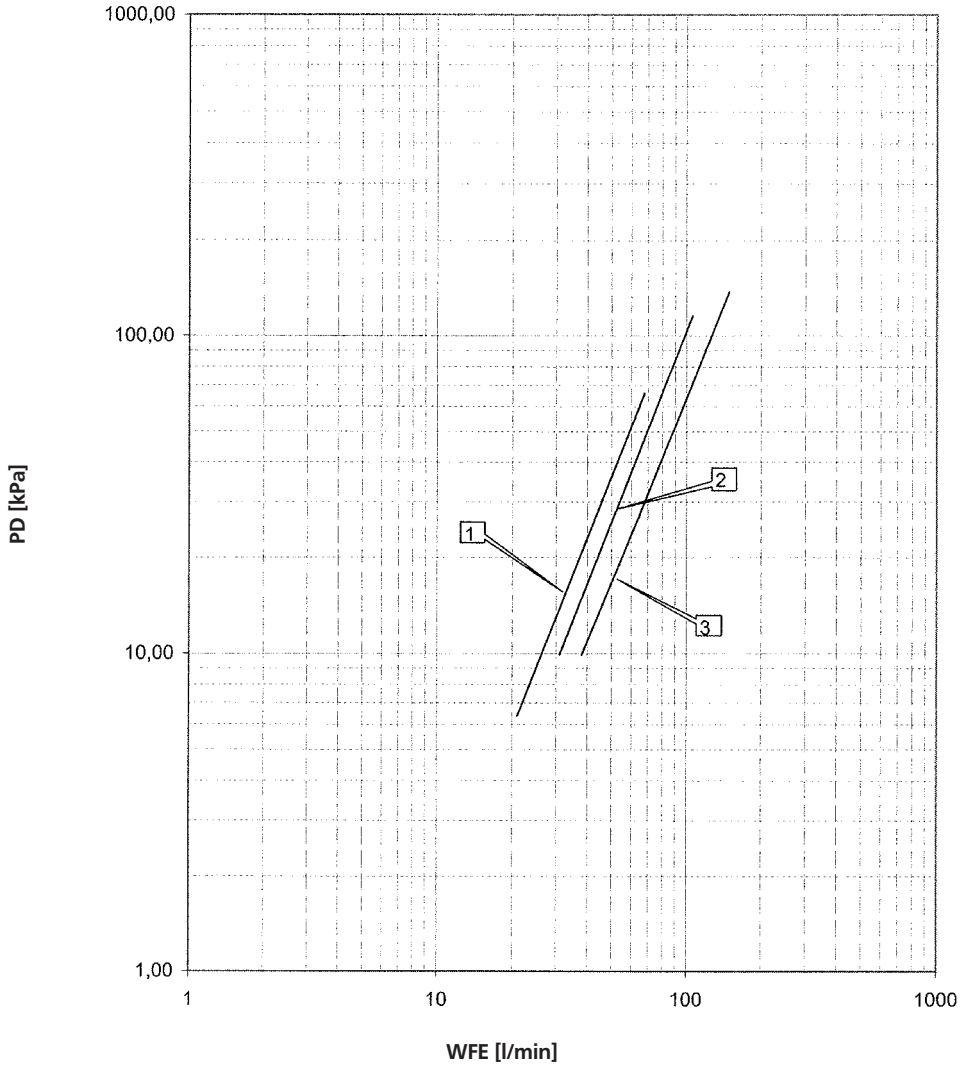
: If the units operate below -5°C and are installed in a rather windy space, a windscreen is required.

4TW55173-1

13 Hydraulic performance

13 - 1 Water pressure drop curve evaporator

EUWY*5-12KAZW



PD: Pressure drop evaporator
WF: Evaporator waterflow rate
① EUWY(*)5K(A)ZW1
② EUWY(*)8K(A)ZW1
③ EUWY(*)10K(A)ZW1
EUWY(*)12K(A)ZW1(*)

Warning: Selecting a flow outside the curves can cause damage to or malfunction of the unit. See also minimum and maximum allowed water flowrate in the technical specifications.

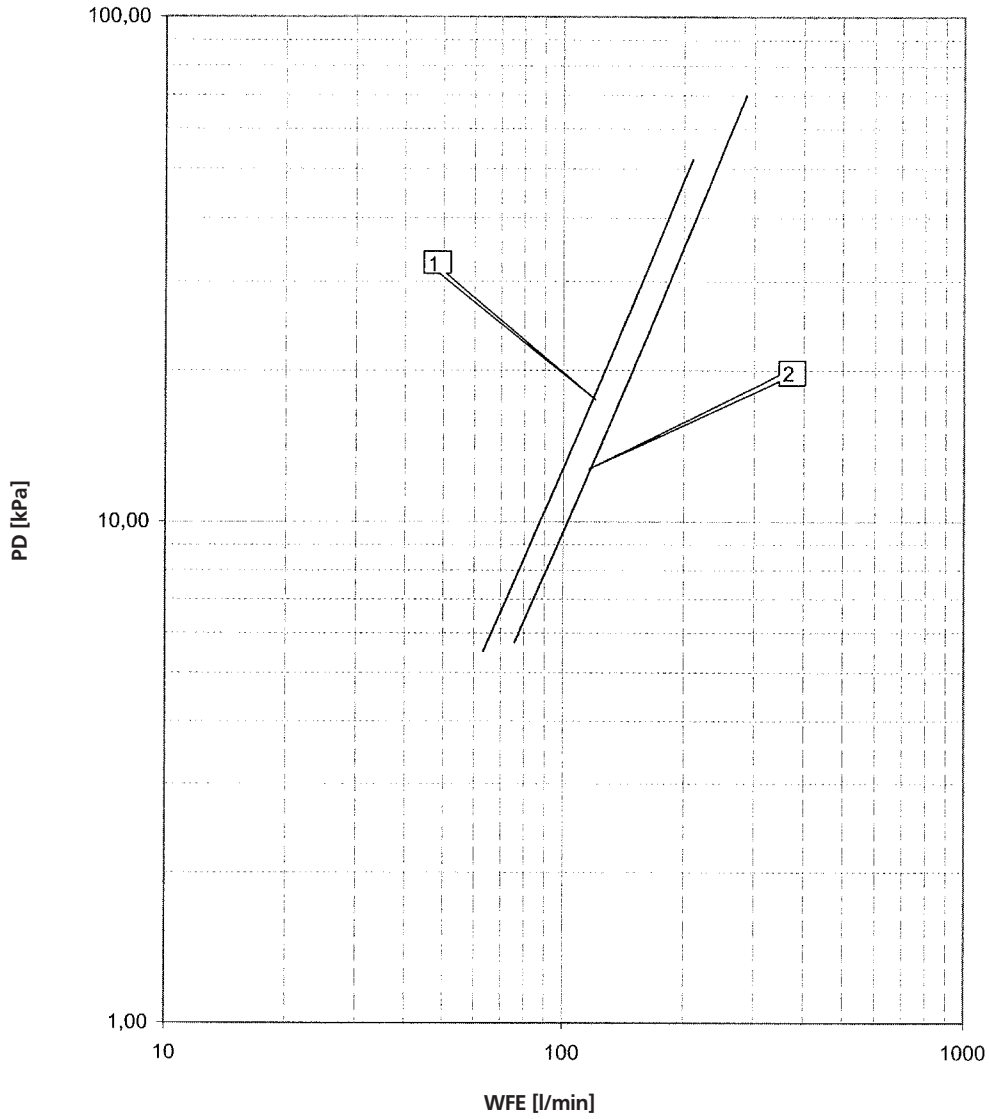
(*) Note:
Minimum allowed flow of 12 Hp is 45 l/min.

4TW55179-1A

13 Hydraulic performance

13 - 1 Water pressure drop curve evaporator

EUWY*16-24KAZW



PD: Pressure drop evaporator
WF: Evaporator waterflow rate
① EUWY(*)16K(A)ZW1
② EUWY(*)20K(A)ZW1
EUWY(*)24K(A)ZW1(*)

Warning: Selecting a flow outside the curves can cause damage to or malfunction of the unit. See also minimum and maximum allowed water flowrate in the technical specifications.

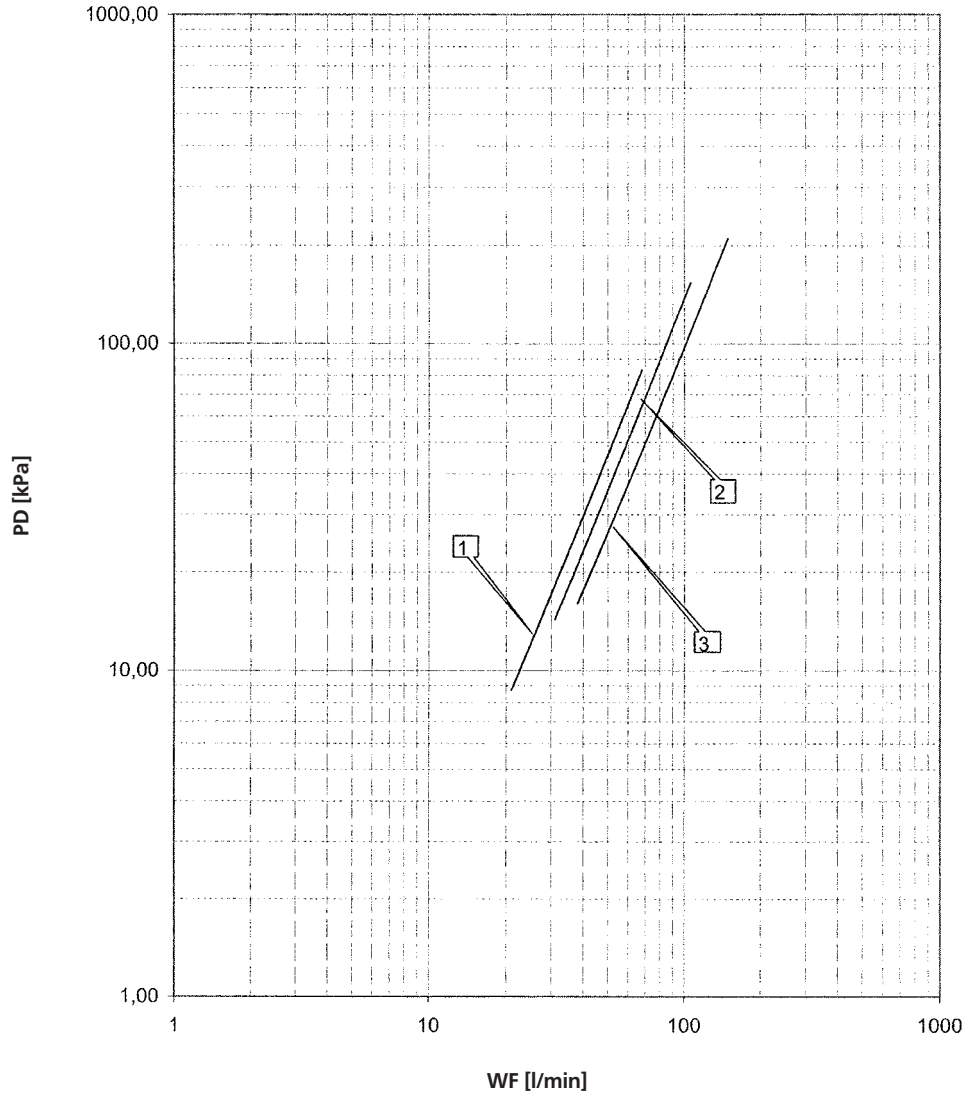
(*) Note:
Minimum allowed waterflow of 24 Hp unit is 90 l/min.

4TW55219-1A

13 Hydraulic performance

13 - 2 Water pressure drop curve unit

EUWYN5-12KAZW



PD: Pressure drop through the unit
WF: Evaporator waterflow rate
① EUWYN5KAZW1
② EUWYN8KAZW1
③ EUWYN10KAZW1
EUWYN12KAZW1(*)

Warning: Selecting a flow outside the curves can cause damage to or malfunction of the unit. See also minimum and maximum allowed water flowrate in the technical specifications.

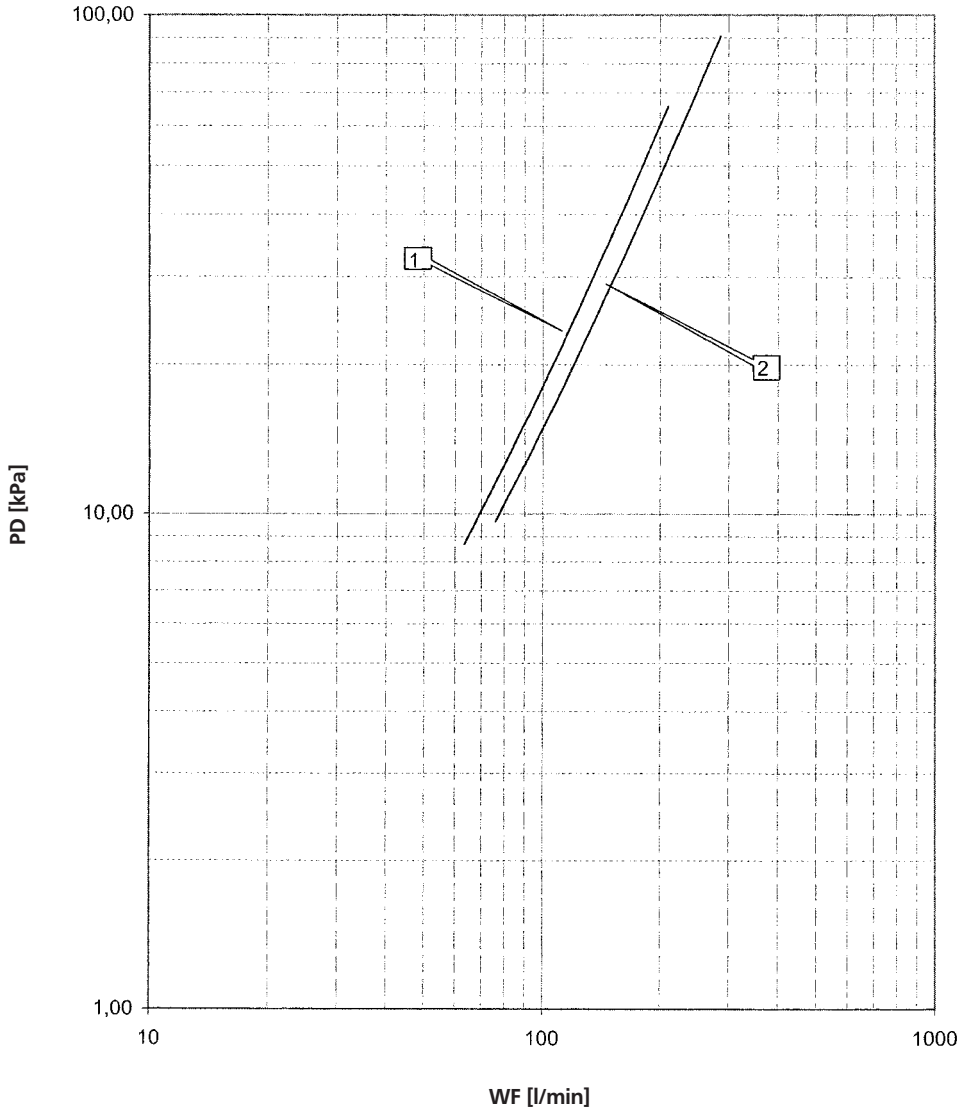
(*) Note:
Minimum allowed flow of 12 Hp is 45 l/min.

4TW55699-6

13 Hydraulic performance

13 - 2 Water pressure drop curve unit

EUWYN16-24KAZW



PD: Pressure drop through the unit
WF: Evaporator waterflow rate
① EUWYN16KAZW1
② EUWYN20KAZW1
EUWYN24KAZW1(*)

Warning: Selecting a flow outside the curves can cause damage to or malfunction of the unit. See also minimum and maximum allowed water flowrate in the technical specifications.

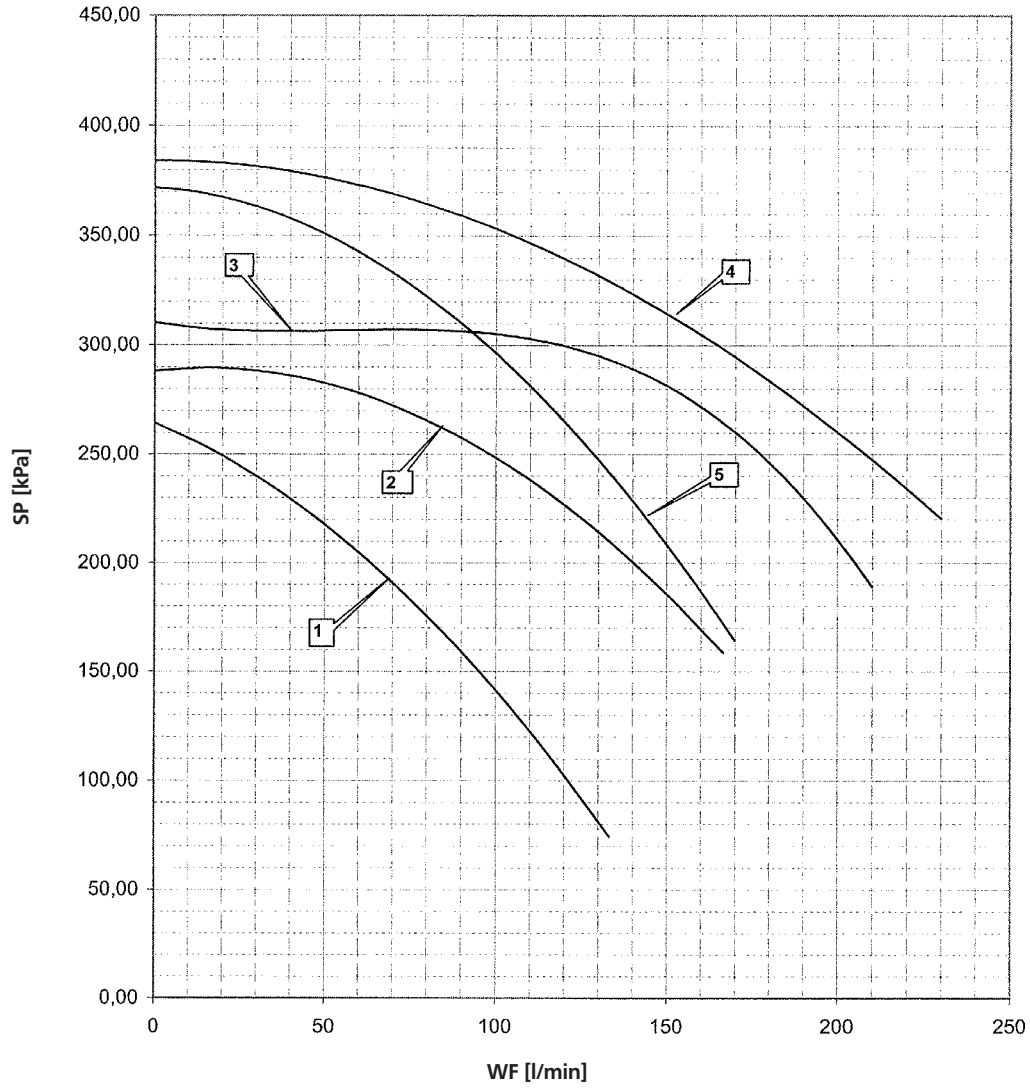
(*) Note:
Minimum allowed waterflow of 24 Hp unit is 90 l/min.

4TW55739-6

13 Hydraulic performance

13 - 3 Pump characteristics

EUWY(*)5-24KAZW



SP: Static pressure of pump
WF: Waterflow rate
① CH4-30 (Standard pumpEUWA/Y(P,B)5-12K(A)Z)
② CH8-30 (Standard pumpEUWA/Y(P,B)16-20K(A)Z)
③ CH12-30 (Optional pumpEUWA/Y(P,B)5-12K(A)Z)
④ CH12-40 (Optional pumpEUWA/Y(P,B)16-24K(A)Z)
⑤ CH8-40 (Standard pumpEUWA/Y(P,B)24K(A)Z)

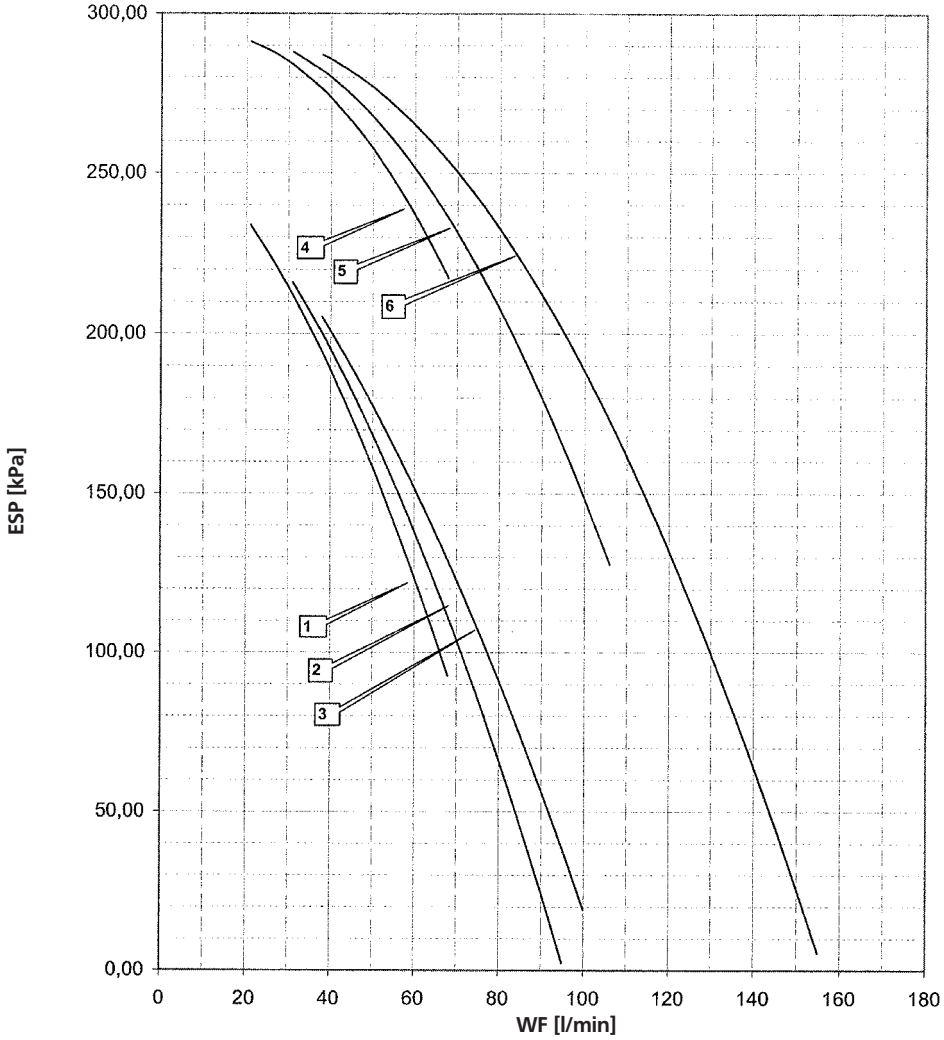
Warning: Selecting a flow outside the curves can cause damage to or malfunction of the unit. See also minimum and maximum allowed water flowrate in the technical specifications.

4TW54759-3E

13 Hydraulic performance

13 - 4 External static pressure of the unit

EUWY*5-12KAZW



ESP: External static pressure of unit
WF: Waterflow rate
① Standard pump = EUWY(P,B)5K(A)ZW1
② Standard pump = EUWY(P,B)8K(A)ZW1
③ Standard pump = EUWY(P,B)10K(A)ZW1
Standard pump = EUWY(P,B)12K(A)ZW1(*)
④ OP pump high = EUWY(P,B)5K(A)ZW1
⑤ OP pump high = EUWY(P,B)8K(A)ZW1
⑥ OP pump high = EUWY(P,B)10K(A)ZW1
OP pump high = EUWY(P,B)12K(A)ZW1(*)

Warning: Selecting a flow outside the curves can cause damage to or malfunction of the unit. See also minimum and maximum allowed water flowrate in the technical specifications.

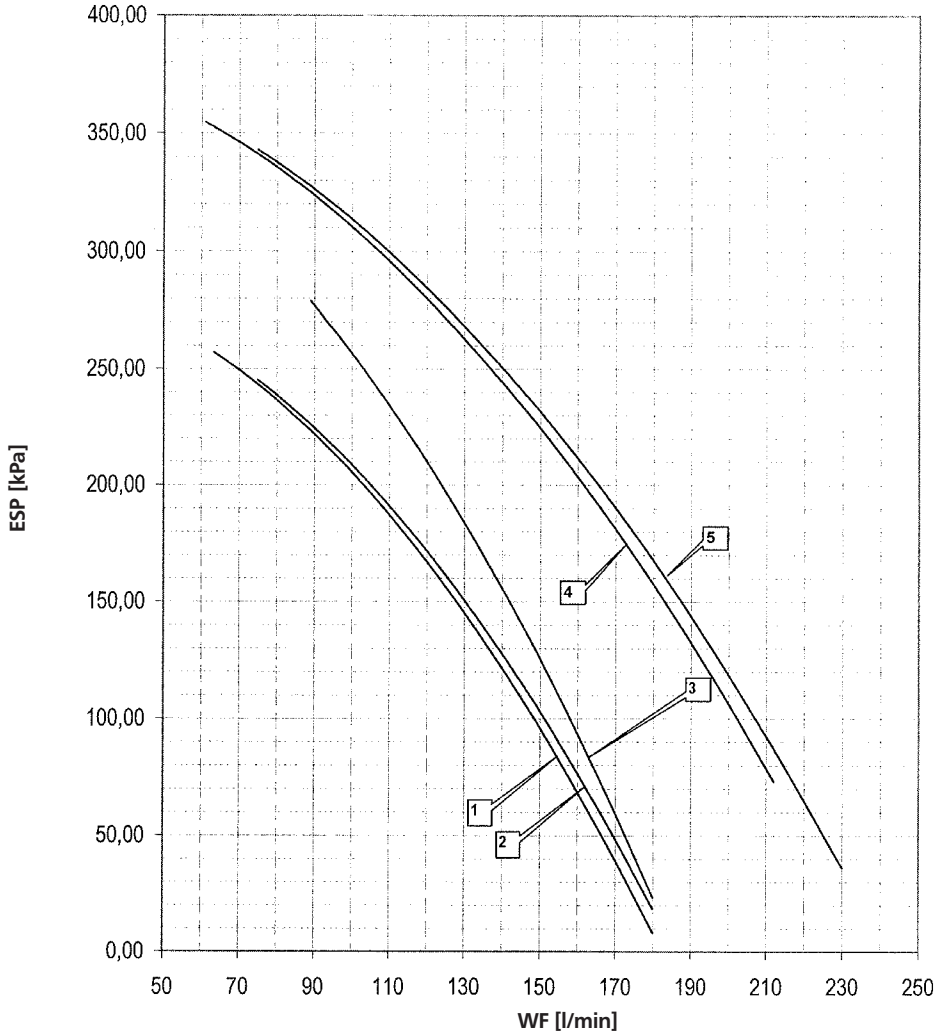
(*) Note:
Minimum allowed flow of 12 Hp is 45 l/min.

4TW55179-4C

13 Hydraulic performance

13 - 4 External static pressure of the unit

EUWY*16-24KAZW



ESP: External static pressure of unit
WF: Waterflow rate
① Standard pump = EUWY(P,B)16K(A)ZW1
② Standard pump = EUWY(P,B)20K(A)ZW1
③ Standard pump = EUWY(P,B)24K(A)ZW1
④ OP pump high = EUWY(P,B)16K(A)ZW1
⑤ OP pump high = EUWY(P,B)20K(A)ZW1
OP pump high = EUWY(P,B)24K(A)ZW1(*)

Warning: Selecting a flow outside the curves can cause damage to or malfunction of the unit. See also minimum and maximum allowed water flowrate in the technical specifications.

(*) Note:
Minimum allowed waterflow of 24 Hp unit is 90 l/min.

4TW55219-4C

Air-cooled

EUWY*5-24KAZW

In all of us, a green heart

Daikin's unique position as a manufacturer of air conditioning equipment, compressors and refrigerants has led to its close involvement in environmental issues. For several years Daikin has had the intention to become a leader in the provision of products that have limited impact on the environment. This challenge demands the eco design and development of a wide range of products and an energy management system, resulting in energy conservation and a reduction of waste.

ISO14001 assures an effective environmental management system in order to help protect human health and the environment from potential impact of our activities, products and services and to assist in maintaining and improving the quality of the environment.

Daikin Europe N.V. is approved by LRQA for its Quality Management System in accordance with the ISO9001 standard. ISO9001 pertains to quality assurance regarding design, development, manufacturing as well as to services related to the product.

Daikin units comply with the European regulations that guarantee the safety of the product.

Daikin Europe N.V. participates in the Eurovent Certification Programme for Air Conditioners (AC), Liquid Chilling Packages (LCP) and Fan Coil units (FC); the certified data of certified models are listed in the Eurovent Directory.

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