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EUWY5-30HD



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Features



The Daikin EUWY-HD series are packaged air-cooled water chillers with cooling and heating applications for outdoor installation.

They are available in 7 models with nominal cooling capacities ranging from 9.1 to 63.4kW and nominal heating capacities ranging from 11.9 to 75.2kW. These series are ideal in combination with Daikin fan coil units or air handling units for air conditioning offices, hotels, restaurants, shops, etc., or for supplying water for industrial applications.

- Daikin scroll compressor
- Low operating sound level
- Electronic DDC controller
- Low energy consumption
- High quality, anti-corrosion
- Compact dimensions and low refrigerant volume
- Easy installation and maintenance
- Pre-coated condenser coil fins
- Stainless steel plate heat exchanger

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2 Specifications



NOMINAL CAPACITY, CAPACITY STEPS and NOMINAL INPUT						
UNITS			EUWY5HD	EUWY8HD	EUWY10HD	EUWY15HD
NOMINAL CAPACITY (1)	Cooling	kW	9.1	17.7	21.0	30.0
	Heating	kW	11.9	20	25.4	36.4
CAPACITY STEPS		%	100	100	100	100 - 66
NOMINAL INPUT	Cooling	kW	4.2	6.4	8.4	13.0
	Heating	kW	4.2	7	8.5	12.6

TECHNICAL SPECIFICATIONS							
UNITS				EUWY5HD	EUWY8HD	EUWY10HD	EUWY15HD
DIMENSIONS	Unit	H	mm	1,444	1,220	1,444	1,535
		W	mm	645	1,290	1,290	1,930
		D	mm	700	700	700	700
WEIGHT	Machine weight		kg	140	208	240	390
	Operation weight		kg	142	210	243	395
MATERIAL				Polyester coated galvanised steel plate			
COLOUR				Ivory white / Munsell code 5Y7.5/1			
SOUND LEVEL (2)	Sound pressure		dB(A)	—	—	—	—
	Sound power		dB(A)	69	78	78	78
FAN	Air flow rate		m ³ /min	80	170	170	170 + 80
	Type			Direct drive			
	Qty x model			1	2	2	3
	No. of motors x output		W	1 x 140	190 + 230	190 + 230	140 + 190 + 230
	Discharge			Vertical			
WATER HEAT EXCHANGER	Type			Brased plate heat exchanger, one per circuit			
	Qty x model			1 x CB51 - 30H	1 x CB51 - 50H	1 x CB51 - 60H	1 x CB51 - 60H + 1 x CB51 - 30H
	Minimum water volume in the system (3)		l	50	90	100	100
	Water flow range		l/min	17 - 75	30 - 120	40 - 145	60 - 220
	Nominal water flow		l/min	26 / 34	51 / 57	60 / 73	86 / 104
	Nominal water pressure drop		kPa	23.5 / 34.6	24.5 / 29.4	26.4 / 35.3	22.5 / 30.4
	Insulation material			Climaflex			
AIR HEAT EXCHANGER	Type			Cross fin coil Hi-X tubes and PE coated waffle louvre fins			
	Rows x stages x fin pitch		mm	2 x 50 x 2	2 x 40 x 2	2 x 50 x 2	2 x 50 x 2
	Face area		m ²	1.26	1.57	1.97	1.97 + 1.26
REFRIGERANT CIRCUIT	Refrigerant type			R-22			
	Refrigerant charge		kg	3.6	5.1	5.9	5.9 + 3.6
	No. of circuits			1	1	1	2
	Refrigerant control			Capillary tube			
COMPRESSOR	Type			Hermetically sealed scroll			
	Qty x model			1 x JT140B-YE	1 x JT212A-YE	1 x JT265A-YE	1 x JT265A-YE + 1 x JT140B-YE
	No. of compressors			1	1	1	2
	Speed		rpm	2,900	2,900	2,900	2,900
	Refrigerant oil type			Suniso 4GSDIDK			
	Refrigerant oil charge		l	1.5	2.7	2.7	2.7 + 1.5
	Crankcase heater		W	33	50	50	50 + 33
PIPING CONNECTIONS	PHE water in-/outlet			FBSP 3/4"	FBSP 1"	FBSP 1"	FBSP 2"
SAFETY DEVICES				High pressure switch / Evaporating temperature protection / Discharge temperature control / Outlet water temperature protection / Compressor motor overcurrent / Fan thermal protector / Anti-recycling and guard timer / Digital display controller with electronic temperature control / Reverse phase protector / Internal fuses for each circuit			

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2 Specifications



NOMINAL CAPACITY, CAPACITY STEPS and NOMINAL INPUT					
UNITS			EUWY20HD	EUWY25HD	EUWY30HD
NOMINAL CAPACITY (1)	Cooling	kW	42.4	51.5	63.4
	Heating	kW	50.3	62.3	75.2
CAPACITY STEPS		%	100 - 50	100 - 60 - 40	100 - 66 - 33
NOMINAL INPUT	Cooling	kW	17.0	21.2	25.6
	Heating	kW	17.3	21.5	25.9

TECHNICAL SPECIFICATIONS									
UNITS				EUWY20HD		EUWY25HD		EUWY30HD	
DIMENSIONS	Unit	H	mm	1,535		1,535		1,535	
		W	mm	2,575		3,220		3,865	
		D	mm	700		700		700	
WEIGHT	Machine weight		kg	530		675		800	
	Operation weight		kg	536		683		809	
MATERIAL				Polyester coated galvanised steel plate					
COLOUR				Ivory white / Munsell code 5Y7.5/1					
SOUND LEVEL (2)	Sound pressure		dB(A)	—		—		—	
	Sound power		dB(A)	81		81		83	
FAN	Air flow rate		m ³ /min	2 x 170		2 x 170 + 80		3 x 170	
	Type			Direct drive					
	Qty x model			4		5		6	
	No. of motors x output		W	2 x 190 + 2 x 230		140 + 2 x 190 + 2 x 230		3 x 190 + 3 x 230	
	Discharge			Vertical					
WATER HEAT EXCHANGER	Type			Brased plate heat exchanger, one per circuit					
	Qty x model			2 x CB51 - 60H		2 x CB51 - 60H + 1 x CB51 - 30H		3 x CB51 - 60H	
	Minimum water volume in the system (3)		l	100		100		100	
	Water flow rate (WFR)		l/min	80 - 290		100 - 370		120 - 440	
	Nominal water flow		l/min	122 / 144		148 / 178		182 / 208	
	Nominal water pressure drop		kPa	26.5 / 34.3		23.5 / 32.3		26.5 / 34.3	
	Insulation material			Climaflex					
AIR HEAT EXCHANGER	Type			Cross fin coil Hi-X tubes and PE coated waffle louvre fins					
	Rows x stages x fin pitch		mm	2 x 50 x 2		2 x 50 x 2		2 x 50 x 2	
	Face area		m2	2 x 1.97		2 x 1.97 + 1.26		3 x 1.97	
REFRIGERANT CIRCUIT	Refrigerant type			R-22					
	Refrigerant charge		kg	2 x 5.9		2 x 5.9 + 3.6		3 x 5.9	
	No. of circuits			2		3		3	
	Refrigerant control			Capillary tube					
COMPRESSOR	Type			Hermetically sealed scroll					
	Qty x model			2 x JT265A-YE		2 x JT265A-YE + 1 x JT140B-YE		3 x JT265A-YE	
	No. of compressors			2		3		3	
	Speed		rpm	2,900		2,900		2,900	
	Refrigerant oil type			Suniso 4GSDIDK					
	Refrigerant oil charge		l	2 x 2.7		2 x 2.7 + 1.5		3 x 2.7	
	Crankcase heater		W	2 x 50		2 x 50 + 33		3 x 50	
PIPING CONNECTIONS	PHE water in-/outlet			FBSP 2"		FBSP 2-1/2"		FBSP 2-1/2"	
SAFETY DEVICES				High pressure switch / Evaporating temperature protection / Discharge temperature control / Outlet water temperature protection / Compressor motor overcurrent / Fan thermal protector / Anti-recycling and guard timer / Digital display controller with electronic temperature control / Reverse phase protector / Internal fuses for each circuit					

2 Specifications



ELECTRICAL SPECIFICATIONS						
UNITS			EUWY5HD	EUWY8HD	EUWY10HD	EUWY15HD
POWER SUPPLY			W1	W1	W1	W1
NOMINAL DISTRIBUTION SYSTEM VOLTAGE	Phase		3N~	3N~	3N~	3N~
	Frequency	Hz	50	50	50	50
	Voltage	V	400	400	400	400
	Voltage tolerance	%	± 10%	± 10%	± 10%	± 10%
UNIT	Starting current		A	—	—	—
	Nominal running current		A	8	13.2	16
	Maximum running current		A	12.5	21.5	24.5
	Recommended fuses according to IEC standard 269-2		aM	3 x 20	3 x 25	3 x 32
COMPRESSOR	Phase		3~	3~	3~	3~
	Voltage	V	400	400	400	400
	Starting current		A	49	79	109
	Nominal running current		A	5.5	9.7	12.5
	Maximum running current		A	10.0	18.0	21.0
	Starting method		Direct on line			
CONTROL CIRCUIT	Phase		1~	1~	1~	1~
	Voltage	V	230	230	230	230
	Recommended fuses		aM	Factory mounted		

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2 Specifications



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ELECTRICAL SPECIFICATIONS					
UNITS			EUWY20HD	EUWY25HD	EUWY30HD
POWER SUPPLY			W1	W1	W1
NOMINAL DISTRIBUTION SYSTEM VOLTAGE	Phase		3N~	3N~	3N~
	Frequency	Hz	50	50	50
	Voltage	V	400	400	400
	Voltage tolerance	%	± 10%	± 10%	± 10%
UNIT	Starting current	A	–	–	–
	Nominal running current	A	31	38	46
	Maximum running current	A	48	59.5	71.5
	Recommended fuses according to IEC standard 269-2	aM	3 x 50	3 x 63	3 x 80
COMPRESSOR	Phase		3~	3~	3~
	Voltage	V	400	400	400
	Starting current	A	109	109/49	109
	Nominal running current	A	2 x 12.5	2 x 12.5 + 5.5	3 x 12.5
	Maximum running current	A	21.0	21/10	21.0
	Starting method		Direct on line		
CONTROL CIRCUIT	Phase		1~	1~	1~
	Voltage	V	230	230	230
	Recommended fuses	aM	Factory mounted		

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: 45°C / 50°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.
- Minimum water volume for standard thermostat difference setting of 3K (5/8/10hp); 1.5K (15/20/25/30hp)
For reduced setting multiply this water volume by 3 (5/8/10hp); 1.5 (15/20/25/30hp) / new setting
Min. allowable setting = 0.1K (5/8/10hp); 0.4K (15/20/25/30hp)

3 Capacity tables

3-1 Cooling capacities for air conditioning applications



AMBIENT TEMPERATURE (°CDB)		15		20		25		30		35		39	
LWE (°C)	MODEL	CC	PI	CC	PI	CC	PI	CC	PI	CC	PI	CC	PI
4	5HD	9.6	2.6	9.3	3.0	9.0	3.3	8.7	3.7	8.6	4.1	8.2	4.6
	8HD	18.9	3.9	18.4	4.5	17.8	5.1	17.2	5.6	16.7	6.3	16.2	6.7
	10HD	22.5	5.2	21.8	5.9	21.1	6.7	20.4	7.4	19.7	8.2	19.2	8.8
	15HD	32.1	8.1	31.1	9.2	30.1	10.3	29.1	11.5	28.3	12.7	27.4	13.7
	20HD	45.4	10.4	44.0	12.0	42.6	13.5	41.2	15.0	39.9	16.7	38.8	17.8
	25HD	54.9	13.0	53.3	14.9	51.7	16.8	50.1	18.7	48.5	20.6	47.2	22.1
	30HD	67.8	15.7	65.7	18.0	63.7	20.2	61.6	22.5	59.7	24.8	58.1	26.6
7	5HD	10.2	2.7	9.8	3.1	9.6	3.4	9.3	3.8	9.1	4.2	8.8	4.6
	8HD	19.9	4.1	19.4	4.7	18.8	5.3	18.3	5.8	17.7	6.4	17.2	6.9
	10HD	23.6	5.4	23.0	6.2	22.3	6.9	21.7	7.7	21.0	8.4	20.5	9.0
	15HD	33.8	8.2	32.8	9.4	31.9	10.7	30.9	11.9	30.0	13.0	29.3	14.0
	20HD	47.7	10.9	46.4	12.5	45.0	14.0	43.7	15.5	42.4	17.0	41.4	18.3
	25HD	57.9	13.5	56.3	15.4	54.7	17.3	53.1	19.2	51.5	21.2	50.2	22.7
	30HD	71.3	16.2	69.4	18.5	67.4	20.9	65.4	23.2	63.4	25.6	61.8	27.5
10	5HD	10.7	2.8	10.4	3.2	10.1	3.5	9.8	3.9	9.5	4.3	9.3	4.6
	8HD	20.9	4.4	20.4	4.9	19.8	5.5	19.3	6.0	18.7	6.6	18.3	7.1
	10HD	24.9	5.7	24.2	6.4	23.6	7.2	22.9	7.9	22.3	8.7	21.7	9.3
	15HD	35.6	8.7	34.6	9.8	33.7	11.0	32.7	12.2	31.7	13.4	31.0	14.3
	20HD	50.2	11.4	48.9	13.0	47.6	14.5	46.3	16.0	44.9	17.5	43.8	18.8
	25HD	61.1	14.1	59.5	16.0	57.8	17.9	56.1	19.8	54.5	21.8	53.2	23.3
	30HD	75.2	17.0	73.2	19.3	71.2	21.6	69.1	24.0	67.2	26.3	65.6	28.2
13	5HD	11.2	3.0	10.9	3.4	10.6	3.7	10.3	4.1	10.1	4.5	9.8	4.8
	8HD	22.1	4.5	21.5	5.1	20.9	5.6	20.4	6.2	19.8	6.8	19.4	7.3
	10HD	26.2	5.9	25.5	6.6	24.8	7.4	24.2	8.1	23.5	8.9	23.0	9.5
	15HD	37.4	9.2	36.4	10.3	35.5	11.4	34.5	12.6	33.6	13.8	32.8	14.7
	20HD	52.9	11.9	51.5	13.4	50.1	14.9	48.8	16.5	47.4	18.0	46.4	19.3
	25HD	64.1	14.7	62.5	16.6	60.9	18.5	59.3	20.4	57.6	22.3	56.3	23.9
	30HD	79.0	17.6	77.0	20.0	74.9	22.3	72.9	24.7	70.9	27.0	69.4	28.9
16	5HD	11.8	3.4	11.4	3.7	11.1	3.9	10.8	4.2	10.6	4.6	10.3	4.8
	8HD	23.1	4.7	22.5	5.2	22.0	5.8	21.4	6.4	20.8	7.0	20.4	7.4
	10HD	27.4	6.1	26.8	6.9	26.1	7.6	25.4	8.4	24.7	9.1	24.2	9.8
	15HD	39.2	9.9	38.2	10.9	37.2	11.9	36.2	12.9	35.3	14.1	34.5	15.0
	20HD	55.4	12.4	54.0	13.9	52.7	15.4	51.3	16.9	49.9	18.5	48.9	19.8
	25HD	67.2	15.4	65.6	17.2	63.9	19.0	62.3	20.9	60.6	22.9	59.3	24.6
	30HD	83.0	17.9	80.9	20.5	78.7	23.0	76.6	25.5	74.6	27.8	73.2	29.7
19	5HD	12.2	3.6	11.9	3.7	11.7	3.9	11.3	4.2	11.1	4.6	10.8	4.8
	8HD	24.2	4.9	23.6	5.4	23.1	6.0	22.5	6.6	22.0	7.1	21.5	7.6
	10HD	28.7	6.4	28.0	7.1	27.3	7.9	26.7	8.6	26.0	9.4	25.5	10.0
	15HD	40.9	10.2	39.9	11.2	39.0	12.2	38.0	13.2	37.1	14.4	36.3	15.3
	20HD	57.9	12.9	56.6	14.4	55.2	15.9	53.8	17.4	52.5	18.9	51.4	20.2
	25HD	70.4	16.3	68.7	18.0	66.9	19.7	65.2	21.4	63.6	23.6	62.4	25.2
	30HD	87.3	18.4	85.0	21.0	82.6	23.6	80.2	26.3	78.3	28.7	77.0	30.5

SYMBOLS

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

NOTES

- Cooling capacity (CAP)**
CAP = Cool. Cap. from table (kW)
NOTE: Capacity is for chilled water range Dt = 3-8°C
- Power input (PC)**
PI = Power input from table (kW)
NOTE: Power input is total input: compressor + fans + control circuit + pumps
- Water flow rate (WFR)**
 $WFR = (860 \times CAP) / (60 \times Dt)$ (l/min)
CAP = From above calculation
Dt = Chilled water temperature rise within 3-8°C
NOTE: WFR should always be within the limits
- Water pressure drop through the evaporator (PDw)**
PDw = Water pressure drop from water pressure drop curve at above calculated WFR.
- CAP and PI are according to the Eurovent rating standard 6/C/003-96.

Shows nominal cooling capacities

Capacity tables



3-2 Heating capacities for air conditi

AMBIENT TEMPERATURE (°CDB)		-7		-3		11	
LWC (°C)	MODEL	HC	PI	HC	PI	HC	PI
41	5HD	8.1	3.7	9.2	3.8	10.1	
	8HD	13.9	6.4	15.6	6.4	16.9	
	10HD	17.6	7.8	19.8	7.8	21.5	
	15HD	25.1	11.4	28.4	11.6	30.9	11.1
	20HD	34.8	15.9	39.2	15.9	42.7	16.0
	25HD	43.0	19.7	48.6	19.7	52.8	20.0
	30HD	51.8	23.6	58.7	23.8	63.7	24.0
45	5HD	8.1	4.1	9.2	4.1	10.0	4.2
	8HD	13.8	6.8	15.5	6.8	16.9	6.9
	10HD	17.5	8.3	19.7	8.3	21.4	8.3
	15HD	24.9	12.3	28.2	12.3	30.7	12.7
	20HD	34.6	16.9	39.0	16.9	42.5	17.5
	25HD	42.6	20.8	48.4	21.1	52.1	21.7
	30HD	51.3	25.1	58.4	25.3	63.3	26.1
50	5HD	7.8	4.4	8.9	4.4		
	8HD	13.5	7.3	15.2			
	10HD	16.9	8.8	19.0			
	15HD	24.1	13.2	27.1			
	20HD	33.4	18.0				
	25HD	41.2					
	30HD	49.6					
55	5HD						

HC

PI

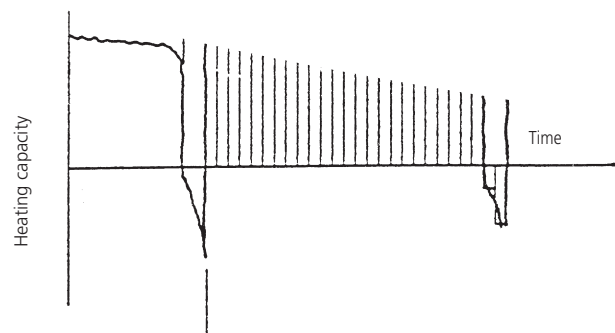
LWC : Lc

NOTES

- Heating capacity (CAP)**
CAP = Heat Capacity from table
NOTE: Capacity is for hot water temperature rise within 3-8°C
Capacities are based on ambient 85%.
However, when outdoor temperature is lower than 6°CWB, **Power input (PI)**
PI = Power input from table (kW)
NOTE: Power input is total input: compressor + fans + control circuit.
- Water flow rate (WFR)**
 $WFR = (860 \times CAP) / (60 \times Dt)$ (l/min)
CAP = From above calculation
Dt = Hot water temperature rise within 3-8°C
NOTE: WFR should always be within the limits
- Water pressure drop through the condenser (PDw)**
PDw = Water pressure drop from water pressure drop curve at above calculated WFR.
- CAP and PI are according to the Eurovent rating standard 6/C/003-96.

Shows nominal heating capacities

Heating capacity at low outdoor temperature.
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.



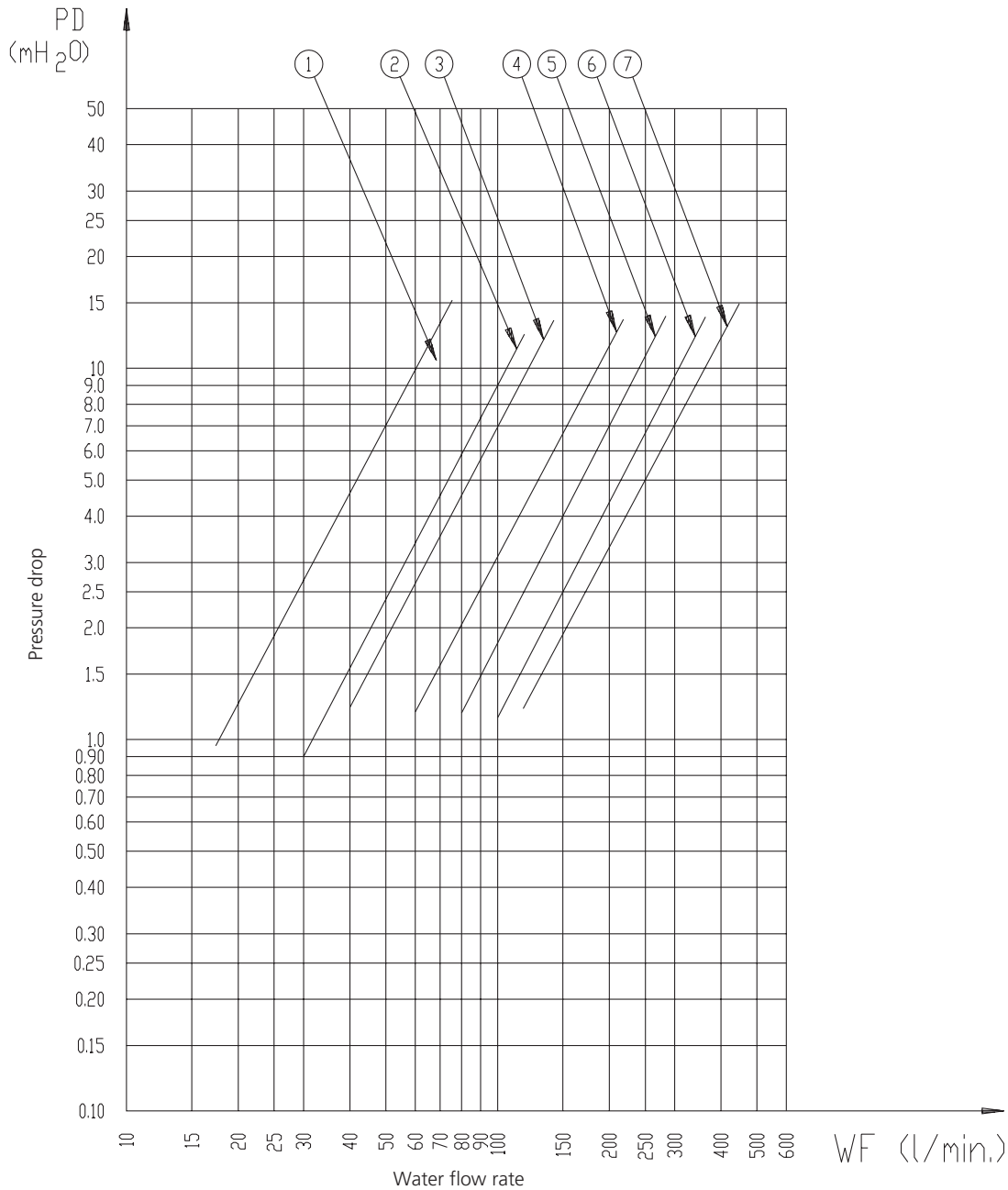
Note

4 Water pressure drop curve



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EUWY5-30H



PD: Pressure drop through the unit
WF: Waterflow rate water heat exchanger

- 1 EUWY5HD
- 2 EUWY8HD
- 3 EUWY10HD
- 4 EUWY15HD
- 5 EUWY20HD
- 6 EUWY25HD
- 7 EUWY30HD

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.

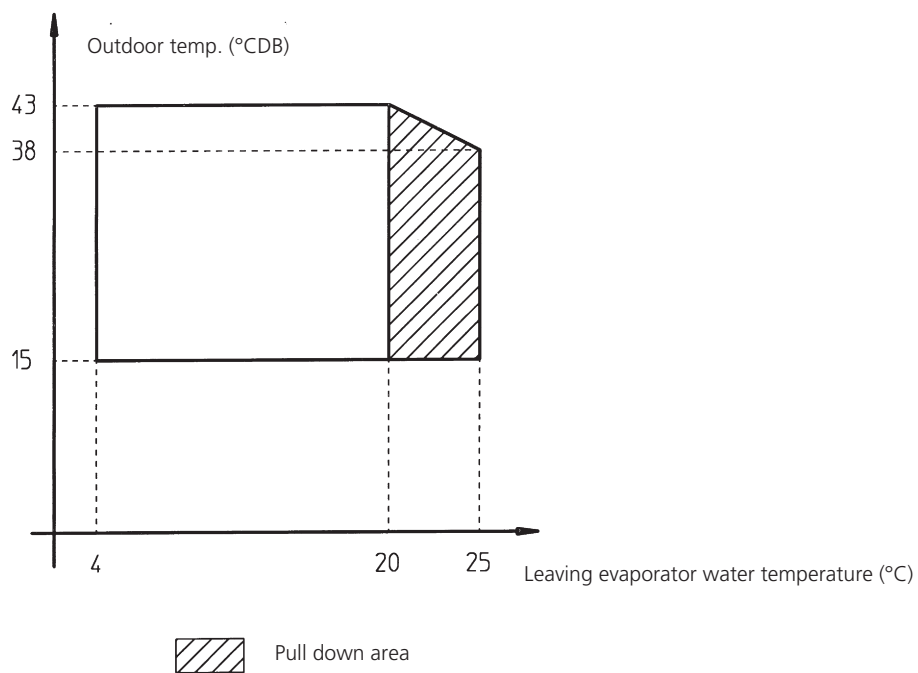
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5 Operation range

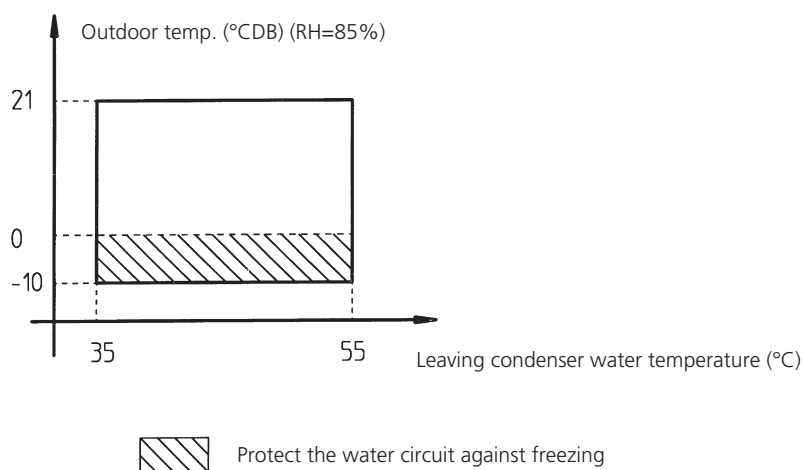


EUWY5-30HD

Cooling mode



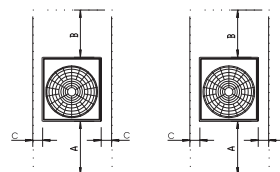
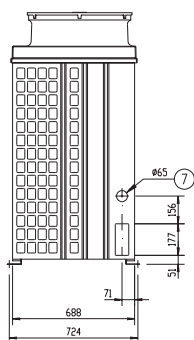
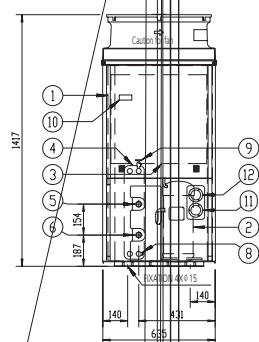
Heating mode



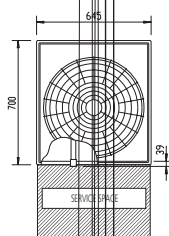
6 Dimensional drawings

EUWY5HD

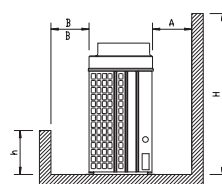
Free space min. 3 m



Free space B



- 1 Air heat exchanger
- 2 Compressor
- 3 Switch box
- 4 Water heat exchanger
- 5 Water IN connection 3/4" BSP
- 6 Water OUT connection 3/4" BSP
- 7 Power supply intake
- 8 Drain
- 9 Air purge
- 10 Electronic controller
- 11 Low pressure gauge (optional)
- 12 High pressure gauge (optional)



If $C \geq 10$

$H \leq 1500 \rightarrow A \geq 500$

$h \leq 500 \rightarrow B \geq 300$

$H = 1500+X \rightarrow A \geq 500+X/2$

$h = 500+Y \rightarrow B \geq 300+Y/2$

If $C \geq 50$

$H \leq 1500 \rightarrow A \geq 500$

$h \leq 500 \rightarrow B \geq 100$

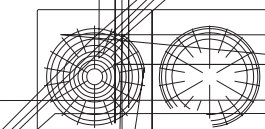
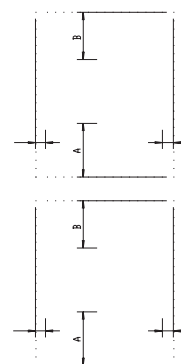
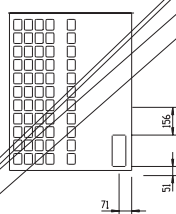
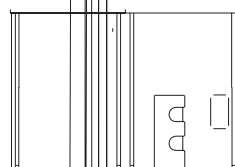
$H = 1500+X \rightarrow A \geq 500+X/2$

$h = 500+Y \rightarrow B \geq 100+Y/2$



3TW50744-1B

EUWY8HD

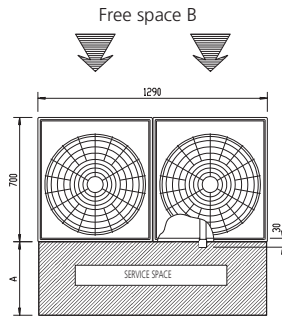
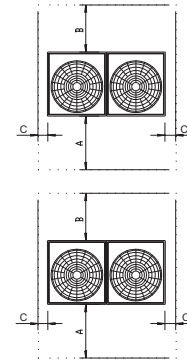
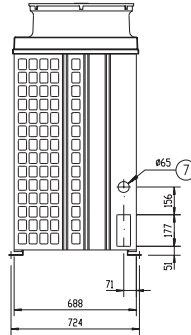
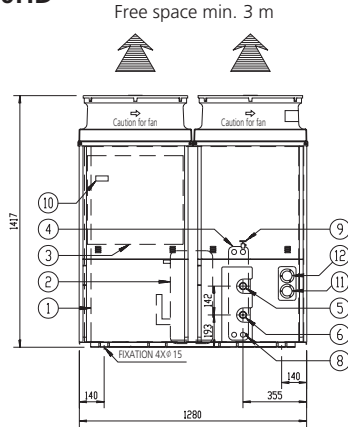


3TW50754-1C

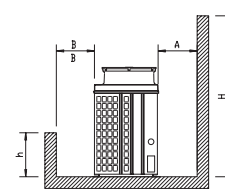
6 Dimensional drawings



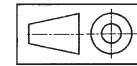
EUWY10HD



- 1 Air heat exchanger
- 2 Compressor
- 3 Switch box
- 4 Water heat exchanger
- 5 Water IN connection 1" BSP
- 6 Water OUT connection 1" BSP
- 7 Power supply intake
- 8 Drain
- 9 Air purge
- 10 Electronic controller
- 11 Low pressure gauge (optional)
- 12 High pressure gauge (optional)

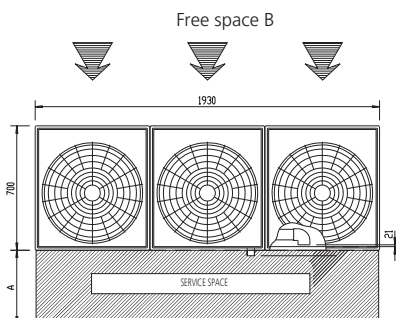
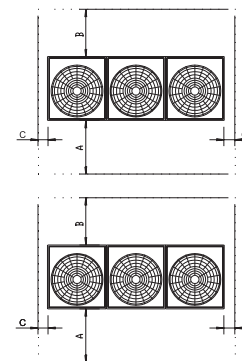
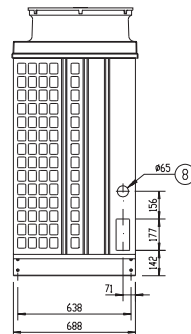
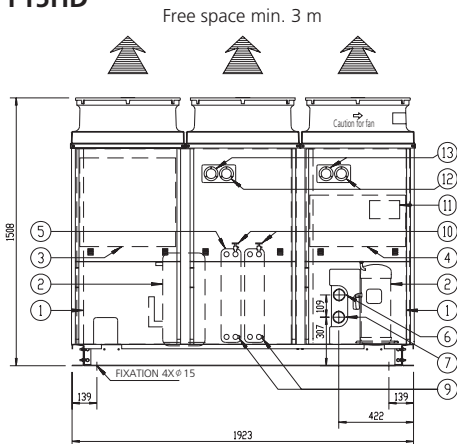


- If $C \geq 10$
- $H \leq 1500 \rightarrow A \geq 500$
 $h \leq 500 \rightarrow B \geq 300$
 $H = 1500+X \rightarrow A \geq 500+X/2$
 $h = 500+Y \rightarrow B \geq 300+Y/2$
- If $C \geq 50$
- $H \leq 1500 \rightarrow A \geq 500$
 $h \leq 500 \rightarrow B \geq 100$
 $H = 1500+X \rightarrow A \geq 500+X/2$
 $h = 500+Y \rightarrow B \geq 100+Y/2$

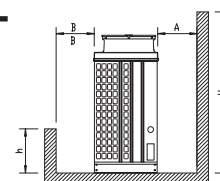


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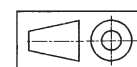
EUWY15HD



- 1 Air heat exchangers
- 2 Compressors
- 3 Main switchbox
- 4 Sub switch box
- 5 Water heat exchangers
- 6 Water IN connection 2" BSP
- 7 Water OUT connection 2" BSP
- 8 Power supply intake
- 9 Drain
- 10 Air purge
- 11 Electronic controller
- 12 Low pressure gauge (optional)
- 13 High pressure gauge (optional)



- If $C \geq 10$
- $H \leq 1500 \rightarrow A \geq 500$
 $h \leq 500 \rightarrow B \geq 300$
 $H = 1500+X \rightarrow A \geq 500+X/2$
 $h = 500+Y \rightarrow B \geq 300+Y/2$
- If $C \geq 50$
- $H \leq 1500 \rightarrow A \geq 500$
 $h \leq 500 \rightarrow B \geq 100$
 $H = 1500+X \rightarrow A \geq 500+X/2$
 $h = 500+Y \rightarrow B \geq 100+Y/2$



3TW50774-1B

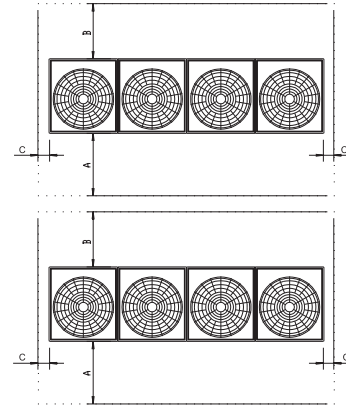
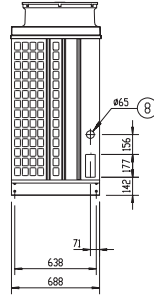
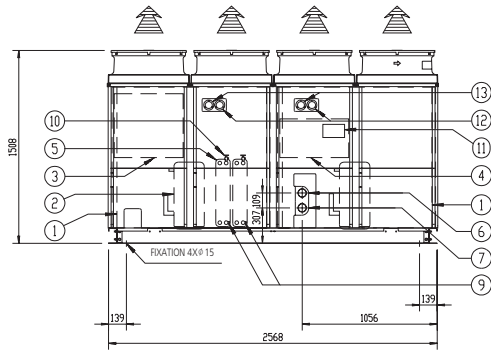
6 Dimensional drawings



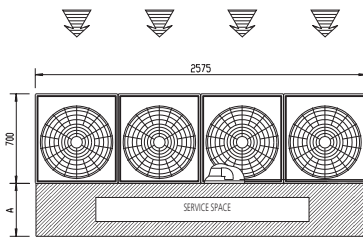
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EUWY20HD

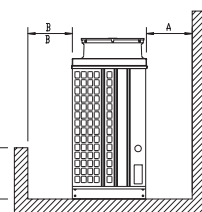
Free space min. 3 m



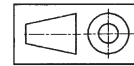
Free space B



- 1 Air heat exchangers
- 2 Compressors
- 3 Main switchbox
- 4 Sub switch box
- 5 Water heat exchangers
- 6 Water IN connection 2" BSP
- 7 Water OUT connection 2" BSP
- 8 Power supply intake
- 9 Drain
- 10 Air purge
- 11 Electronic controller
- 12 Low pressure gauge (optional)
- 13 High pressure gauge (optional)



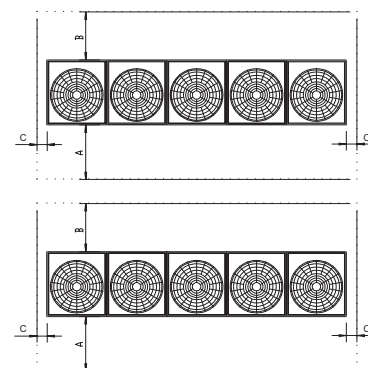
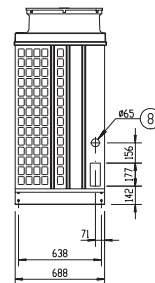
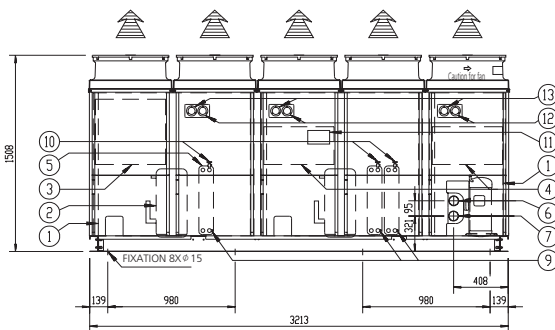
- If $C \geq 10$
- $H \leq 1500 \rightarrow A \geq 500$
 $h \leq 500 \rightarrow B \geq 300$
 $H = 1500+X \rightarrow A \geq 500+X/2$
 $h = 500+Y \rightarrow B \geq 300+Y/2$
- If $C \geq 50$
- $H \leq 1500 \rightarrow A \geq 500$
 $h \leq 500 \rightarrow B \geq 100$
 $H = 1500+X \rightarrow A \geq 500+X/2$
 $h = 500+Y \rightarrow B \geq 100+Y/2$



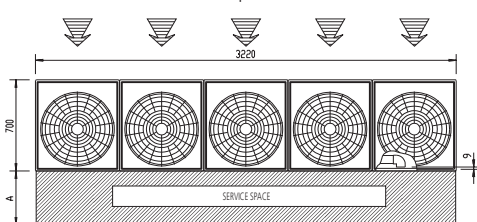
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EUWY25HD

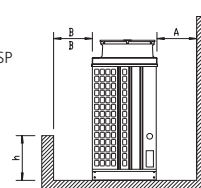
Free space min. 3 m



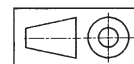
Free space B



- 1 Air heat exchangers
- 2 Compressors
- 3 Main switchbox
- 4 Sub switch box
- 5 Water heat exchangers
- 6 Water IN connection 2 1/2" BSP
- 7 Water OUT connection 2 1/2" BSP
- 8 Power supply intake
- 9 Drain
- 10 Air purge
- 11 Electronic controller
- 12 Low pressure gauge (optional)
- 13 High pressure gauge (optional)



- If $C \geq 10$
- $H \leq 1500 \rightarrow A \geq 500$
 $h \leq 500 \rightarrow B \geq 300$
 $H = 1500+X \rightarrow A \geq 500+X/2$
 $h = 500+Y \rightarrow B \geq 300+Y/2$
- If $C \geq 50$
- $H \leq 1500 \rightarrow A \geq 500$
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 $H = 1500+X \rightarrow A \geq 500+X/2$
 $h = 500+Y \rightarrow B \geq 100+Y/2$

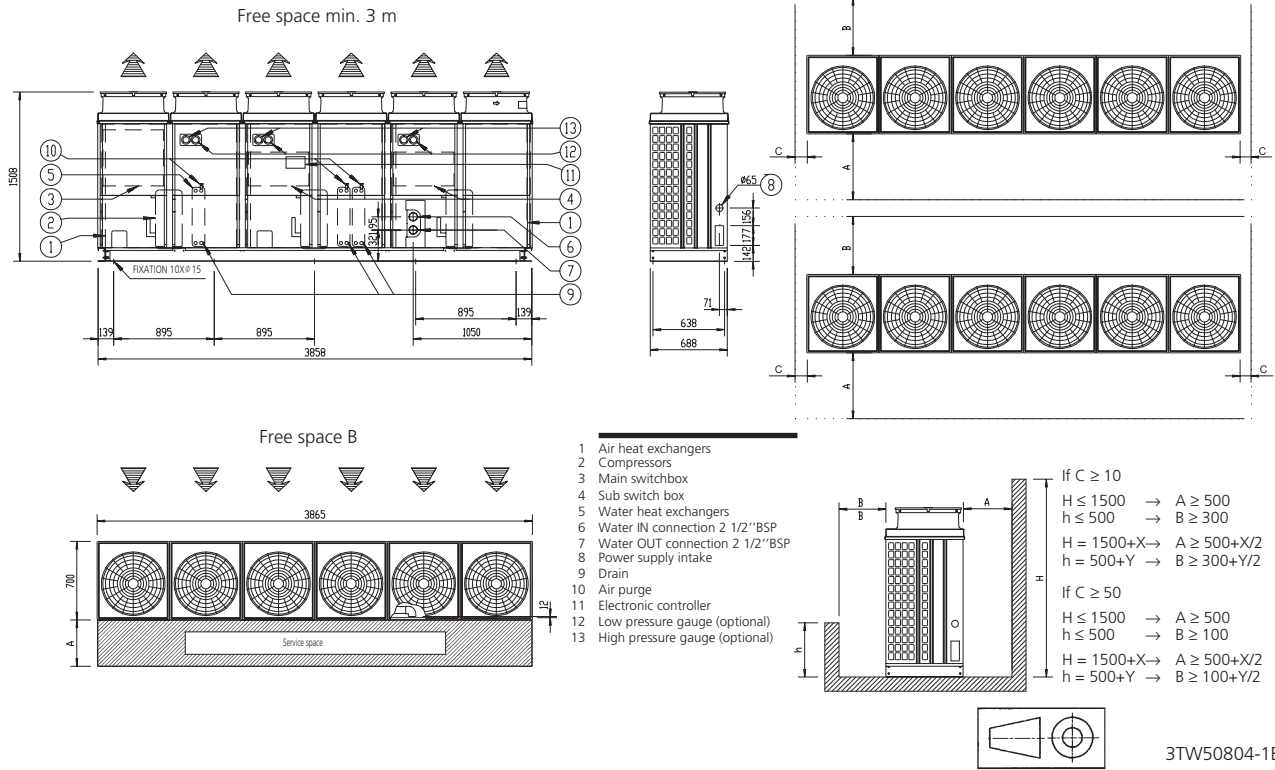


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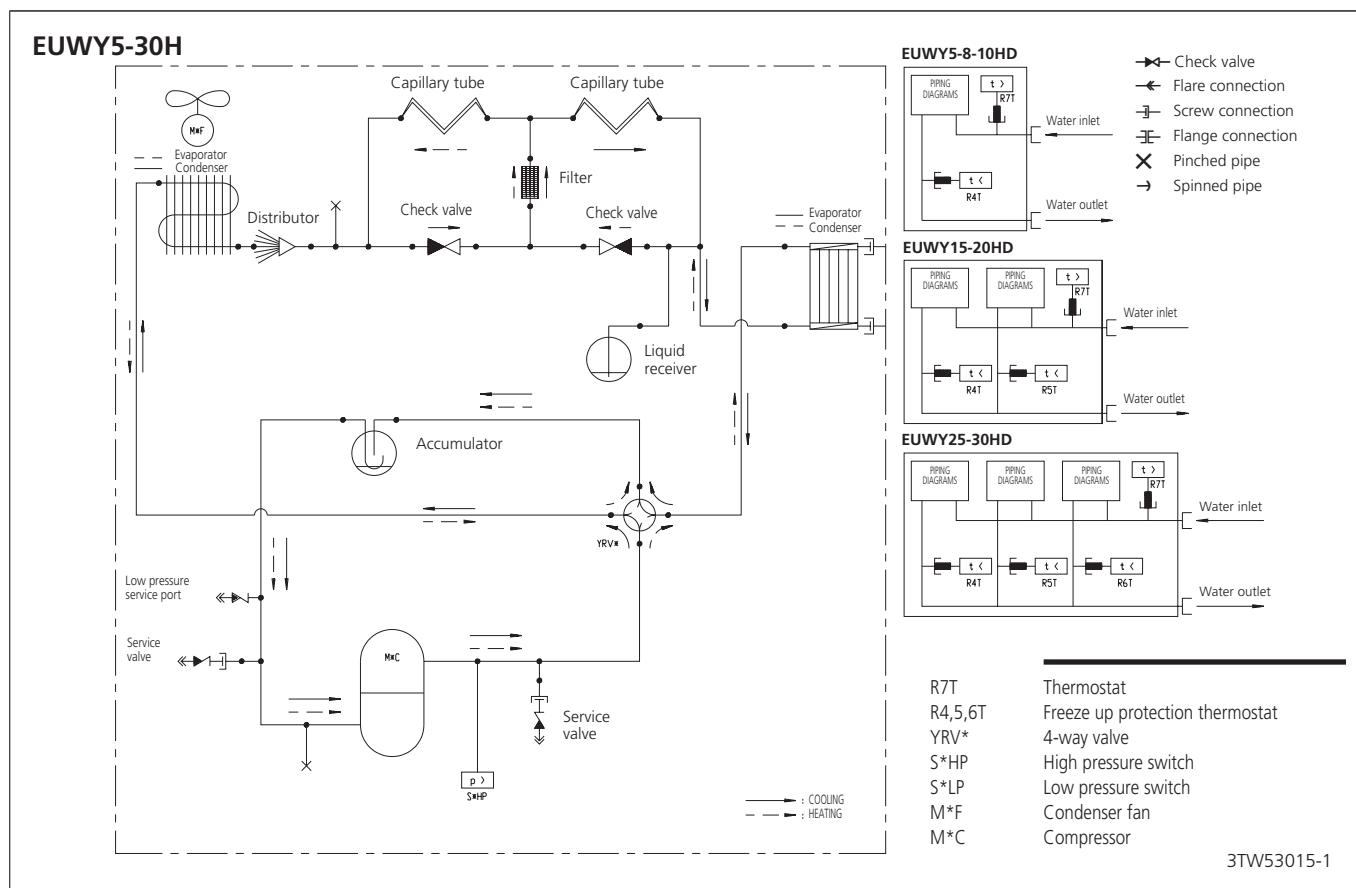
6 Dimensional drawings



EUWY30HD



7 Piping diagrams

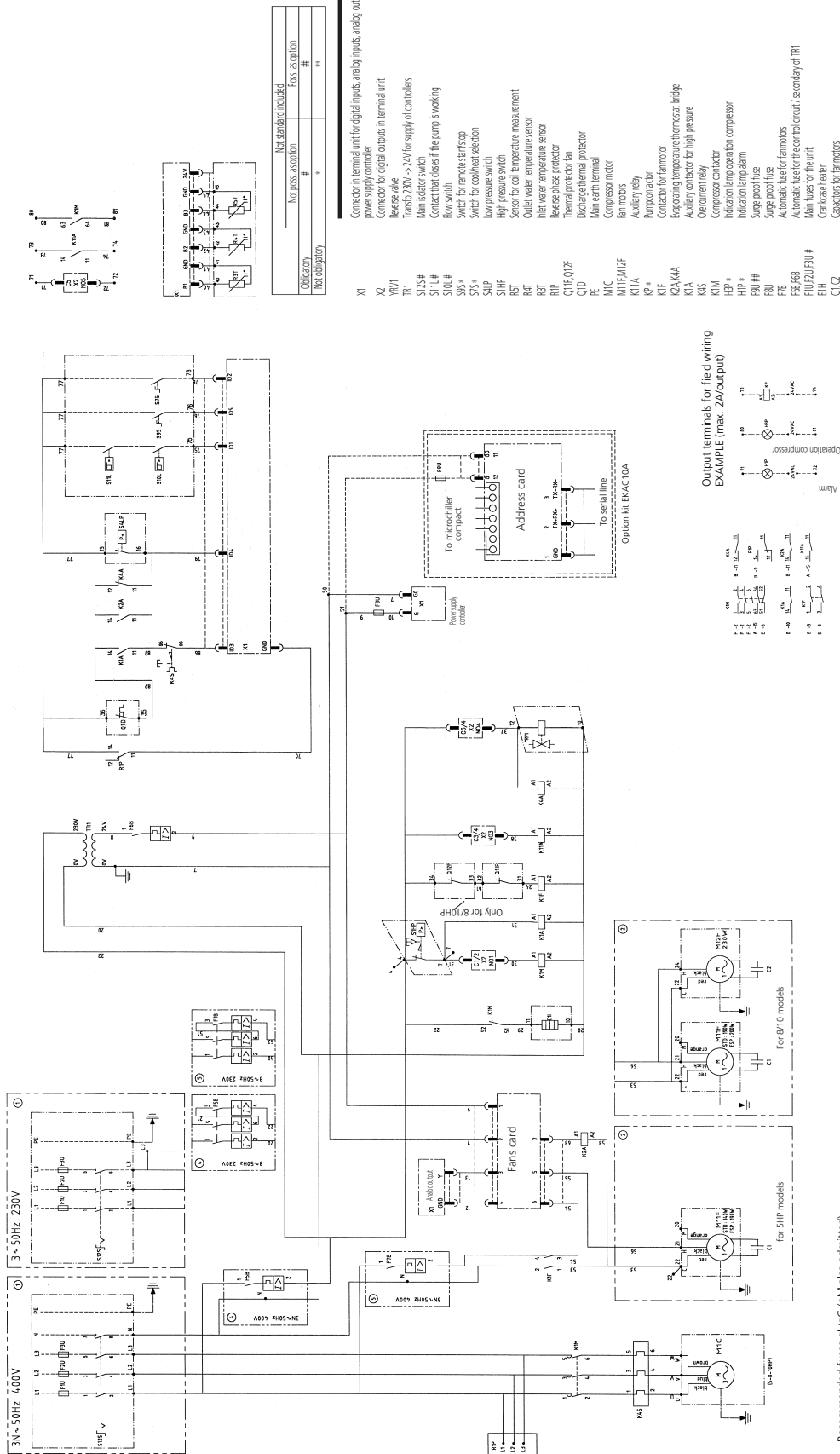


5
7



8 Wiring diagrams

EUWY5-8-10HDW1



- 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-display
 - (7) Outside switchbox
- Notes (8) through (10) are also present in the original document.

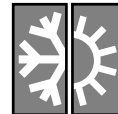
- Output terminals for field wiring
- EXAMPLE (max. 2A/output)
- Notes (1) through (7) are also present in the original document.

Recommended fuses qL/gG (aM also admitted) according to IEC standard 269-2 (F1U, F2U, F3U = qL/gG)

Fuse	400V	230V
F1U (1D1-GND):	500V 80V 100V 50V	100V
F1U (1D2-GND):	200V 350V 250V 150V	50V
F2U (1D3-GND):	1A 1A 1A 0.5A 0.5A 0.5A	0.5A
F3U (1D4-GND):	1A 1A 1A 1A 1A 1A	1A
F4U (1D5-GND):	35mA 35mA 35mA 35mA 35mA 35mA	35mA
F5U (1D6-GND):	125mA 125mA 125mA 125mA 125mA 125mA	125mA
F6U (1D7-GND):	10A 10A 10A 10A 10A 10A	10A
F7U (1D8-GND):	10A 10A 10A 10A 10A 10A	10A

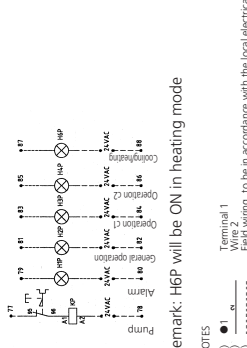
2TW53016-1

8 Wiring diagrams



EUWY15-20HDW1

Output terminals for field wiring (max 2A/output) EXAMPLE



Remark: H6P will be ON in heating mode

NOTES

- (1) Terminal 1
- (2) Wiring, to be in accordance with the local electrical regulations
- (3) Earth wiring
- (4) Option
- (5) Wiring dependent on model
- (6) PCB display
- (7) Outside switchbox
- (8) Compressor rotates reversely, it may be damaged.
- (9) OPTIONAL

OP10 = Evaporator heater tape
K10 = Kit for operation range down to -15°C
K10AC30A = Kit for operation range down to -15°C

Interconnection connectors
X1 = 12 Pins Connector
X2 = 14 Pins Connector

Not standard included

Optional	Not optional	Pos. as option	##
Compressor	+	+	##

Interconnection connectors

X1 = 12 Pins Connector

X2 = 14 Pins Connector

Reverse valve circuit 1, circuit 2

Interconnection connector switchbox 1, switchbox 2

Transistor 230V - 24V for supply of controllers

Defrost controller circuit 1, circuit 2

Main isolator switch

Flow switch

Flow switch

Switch for dual support

Switch for dual support

Low pressure switch for circuit 1, circuit 2

High pressure switch for circuit 1, circuit 2

Sensor for evaporator/condenser inlet water temperature

Outlet water temperature sensor

Sensor for ambient temperature measurement

Sensor for coil temperature measurement

Reverse phase protector

Thermal protector fan 1, fan 2

Thermal protector fan 1, fan 2

Thermal protector fan 1, fan 2

Thermal protector fan 1, fan 2

Thermal protector fan 1, fan 2

Thermal protector fan 1, fan 2

Thermal protector fan 1, fan 2

Thermal protector fan 1, fan 2

Thermal protector fan 1, fan 2

Thermal protector fan 1, fan 2

Thermal protector fan 1, fan 2

Thermal protector fan 1, fan 2

Thermal protector fan 1, fan 2

Thermal protector fan 1, fan 2

Thermal protector fan 1, fan 2

Thermal protector fan 1, fan 2

Thermal protector fan 1, fan 2

Thermal protector fan 1, fan 2

Thermal protector fan 1, fan 2

Thermal protector fan 1, fan 2

Thermal protector fan 1, fan 2

Thermal protector fan 1, fan 2

Thermal protector fan 1, fan 2

Thermal protector fan 1, fan 2

Thermal protector fan 1, fan 2

Thermal protector fan 1, fan 2

Thermal protector fan 1, fan 2

Thermal protector fan 1, fan 2

Thermal protector fan 1, fan 2

Thermal protector fan 1, fan 2

Thermal protector fan 1, fan 2

Thermal protector fan 1, fan 2

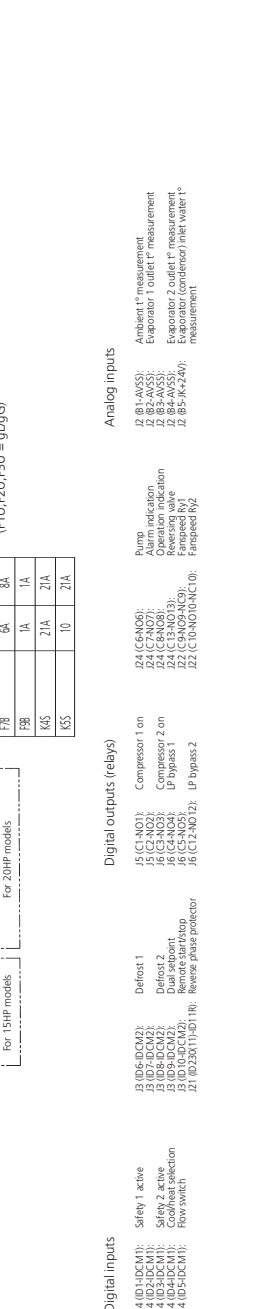
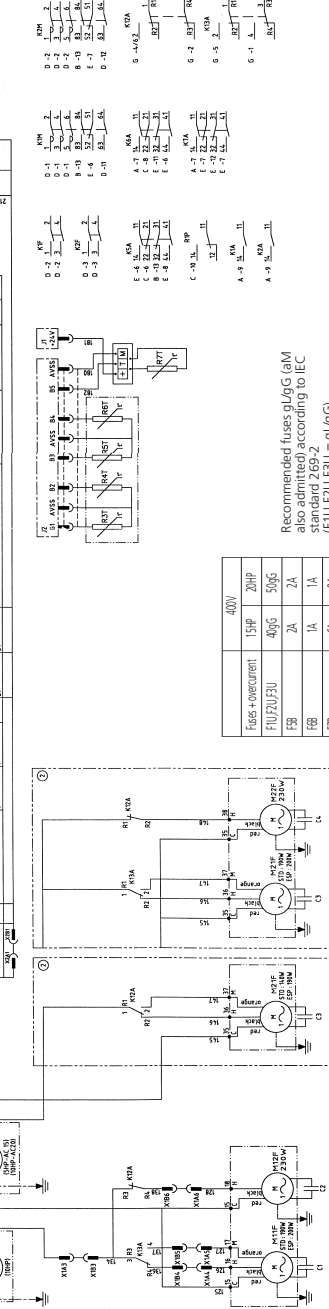
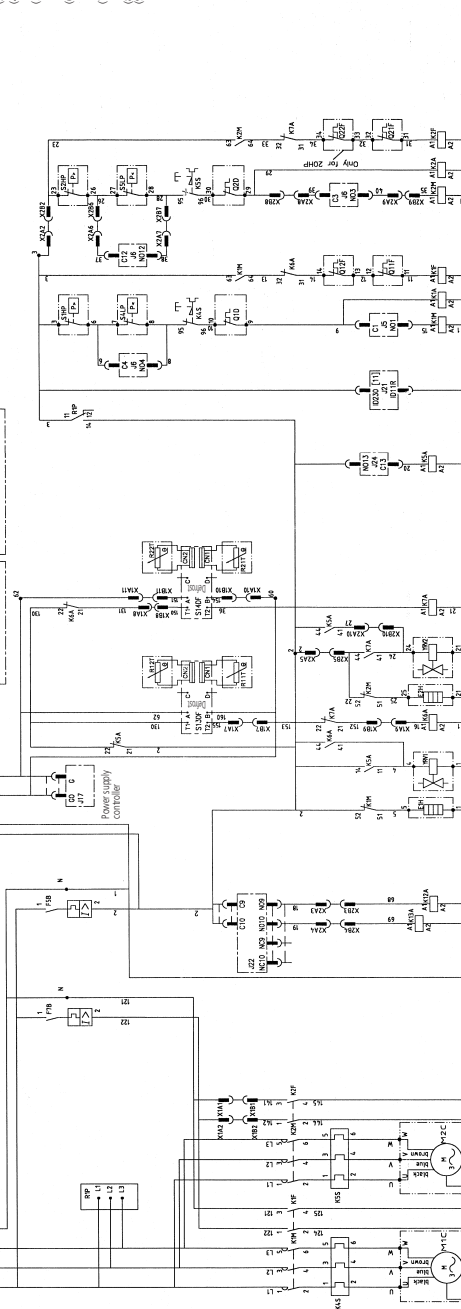
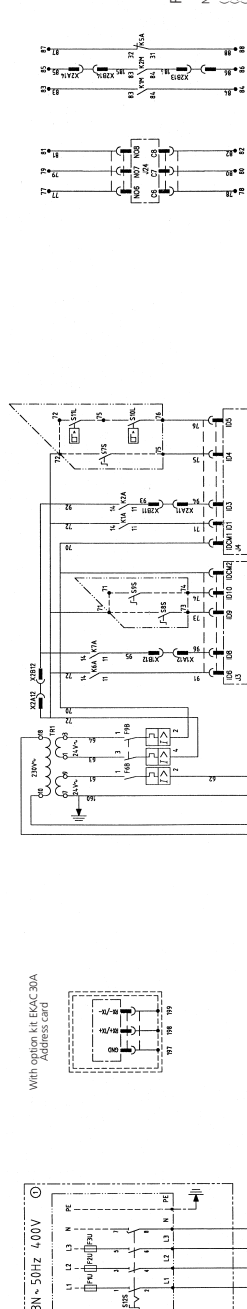
Thermal protector fan 1, fan 2

Thermal protector fan 1, fan 2

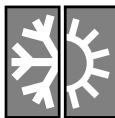
Thermal protector fan 1, fan 2

Thermal protector fan 1, fan 2

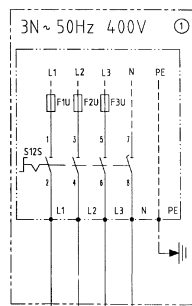
Thermal protector fan 1, fan 2



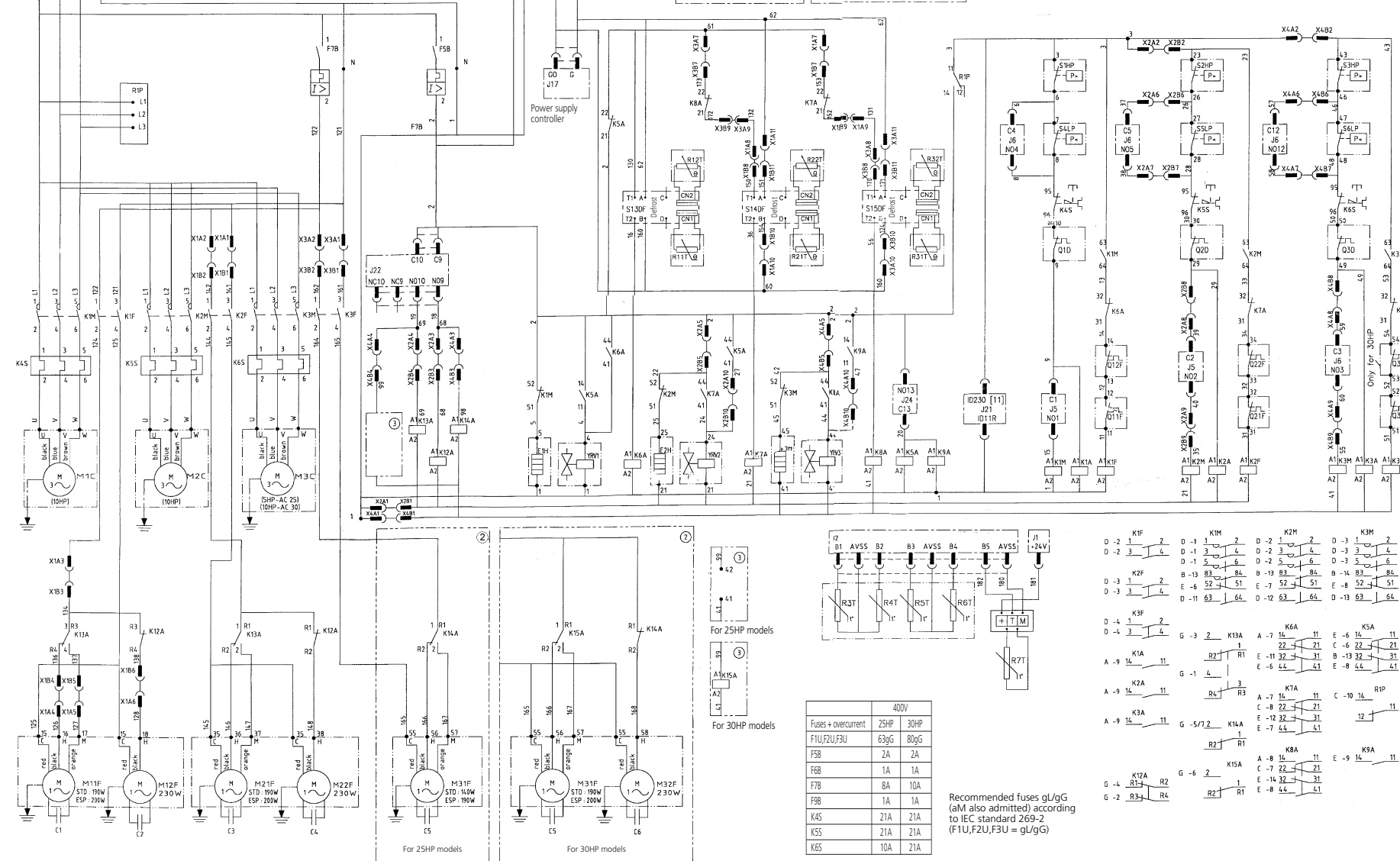
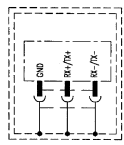
8 Wiring diagrams



EUWY25-30HDW1



With option kit EKAC30A
Address card



Digital inputs

J4 (ID1-IDCM1): Safety 1 active
J4 (ID2-IDCM1): Safety 2 active
J4 (ID3-IDCM1): Safety 3 active
J4 (ID4-IDCM1): Cool/heat selection
J4 (ID5-IDCM1): Flow switch

J3 (ID6-IDCM2): Defrost 1
J3 (ID7-IDCM2): Defrost 2
J3 (ID8-IDCM2): Defrost 3
J3 (ID9-IDCM2): Remote start/stop
J3 (ID10-IDCM2): Dual setpoint
J3 (ID11-IDCM2): Reverse phase protector

Digital outputs (relays)

J5 (C1-N01): Compressor 1 on
J5 (C2-N02): Compressor 2 on
J5 (C3-N03): Compressor 3 on
J6 (C4-N04): LP bypass 1
J6 (C5-N05): LP bypass 2
J6 (C12-N02): LP bypass 3

Recommended fuses gL/gG
(aM also admitted) according
to IEC standard 269-2
(F1U,F2U,F3U = gL/gG)

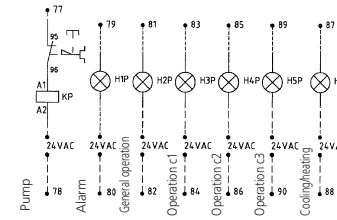
Fuses + overcurrent	25HP	30HP
F1U,F2U,F3U	63gG	80gG
F5B	2A	2A
F6B	1A	1A
F7B	8A	10A
F8B	1A	1A
K4S	21A	21A
K5S	21A	21A
K6S	10A	21A

Analog inputs

J2 (B1-AVSS): Ambient t° measurement
J2 (B2-AVSS): Evaporator 1 outlet t° measurement
J2 (B3-AVSS): Evaporator 2 outlet t° measurement
J2 (B4-AVSS): Evaporator 3 outlet t° measurement
J2 (B5-JK-24V): Evaporator (condensor) inlet water t° measurement

Output terminals for field wiring (max 2A/output)

EXAMPLE



Remark: H6P will be ON in heating mode

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) Wiring dependent on model
- (7) PCB-display
- (8) Outside switchbox
- (9) If compressor rotates reversely, it may be damaged.
- (10) OPTIONAL
- (11) OP10 = Evaporator heattape
- (12) ESP = Kit for operation range down to -15°C
- (13) EKAC30A = Address card kit for BMS-connections

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

Interconnection connectors
X1 = 12 Pins Connector
X2 = 14 Pins Connector
X3 = 12 Pins Connector
X4 = 14 Pins Connector

YR1,YR2,YR3
X3A/X4A,X3B/X4B
X1A/X1B,X2A/X2B
TR1
S13DF,S14DF,S15DF #
S12S #
S11L #
S10L #
S9S #
S8S #
S7S #
S4LP,S5LP,S6LP
S1PH,S2PH,S3PH
RTT
R4T,R5T,R6T
R3T
R12T,R22T,R32T
R11T,R21T,R31T
R1P
Q31F,Q32F
Q21F,Q22F
Q11F,Q12F
Q1D,Q2D,Q3D
PE
M1C,M2C,M3C
M31F,M32F
M21F,M22F
M11F,M12F
K2P #
K14A,K15A
K12A,K13A
K6A,K7A,K8A
K5A,K9A
K1F,K2F,K3F
K1A,K2A,K3A
K4S,K5S,K6S
K1M,K2M,K3M
J17
J24,J22,J5,J6
J3,J4,J21
J1J2
H6P #
H3P,H4P,H5P #
H2P #
H1P #
F9B
F7B
F6B
F5B
F1U,F2U,F3U #
E1H,E2H,E3H
C1,C2,C3,C4,C5,C6

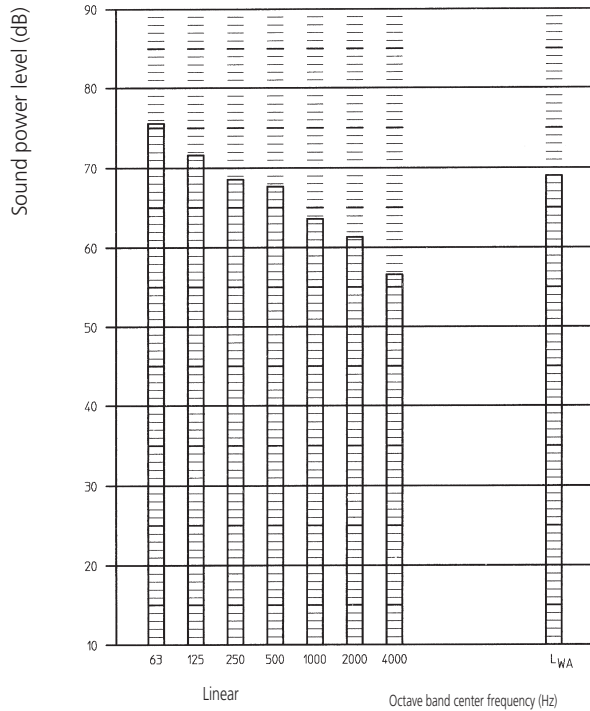
Reverse valve circuit 1, circuit 2, circuit 3
Interconnection connector switchbox 1, switchbox 3
Interconnection connector switchbox 1, switchbox 2
Transfo 230V -> 24V(30VA) for supply of controllers
Defrost protector circuit 1, circuit 2, circuit 3
Main isolator switch
Contact that closes if the pump is working
Flow switch
Switch for remote start/stop
Switch for dual setpoint
Switch for cool/heat selection (open-cooling)
Low pressure switch circuit 1, circuit 2, circuit 3
High pressure switch for circuit 1, circuit 2, circuit 3
Sensor for evaporator/condensor inlet water t° measurement
Outlet water temperature sensor
Sensor for ambient temperature measurement
Sensors for air temperature measurement
Sensor for coil temperature measurement
Reverse phase protector
Thermal protector fan 5, 6
Thermal protector fan 3, 4
Thermal protector fan 1, 2
Discharge thermal protector circuit 1, circuit 2, circuit 3
Main earth terminal
Compressor motors for compressor 1, compressor 2, compressor 3
Fan motors for compressor 3
Fan motors for compressor 2
Fan motors for compressor 1
Pump/contactor
Auxiliary relay for fan speed control
Auxiliary relay for fan speed control
Contactor for defrost circuit 1, circuit 2, circuit 3
Cool/heat contactor
Contactor for fanmotor circuit 1, circuit 2, circuit 3
Auxiliary relay for safety circuit 1, circuit 2, circuit 3
Overcurrent relay circuit 1, circuit 2, circuit 3
Compressor contactor circuit 1, circuit 2, circuit 3
Contactor for power supply controller
Contactor for digital output
Connector for digital input
Connector for analog input
Indication lamp cooling/heating
Indication lamp operation circuit 1, circuit 2, circuit 3
Indication lamp general operation
Indication lamp alarm
Automatic fuse for the secondary of TR1
Automatic fuse for the fans circuit
Automatic fuse for the secondary of TR1
Automatic fuse for the primary of TR1 + control circuit
Main fuses for the unit
Crankcase heater circuit 1, circuit 2, circuit 3
Capacitors for fanmotors

9

Sound power spectrum

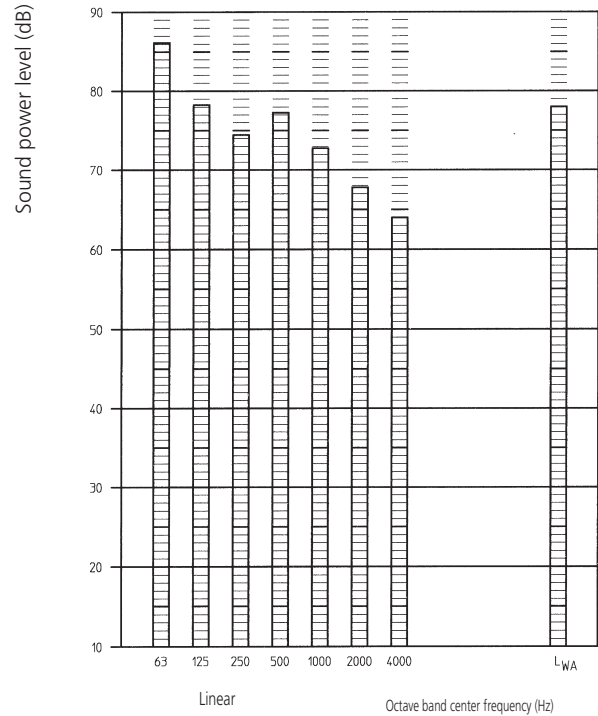


EUWY5HD



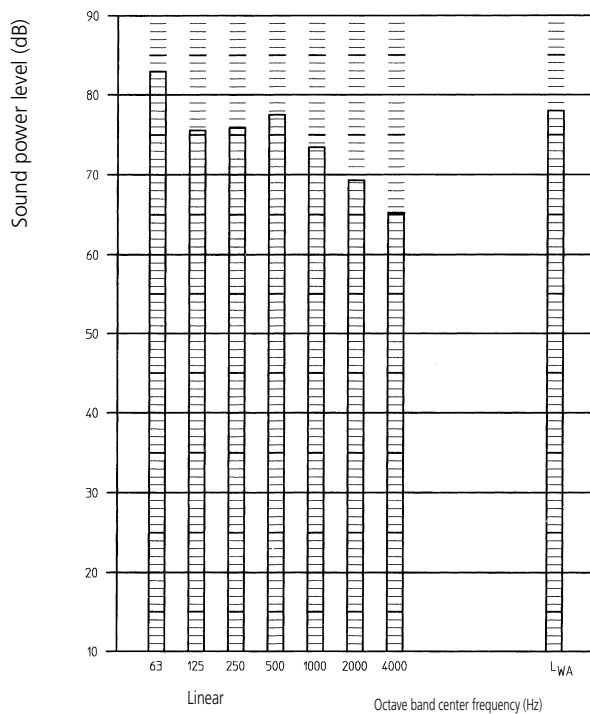
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EUWY8HD



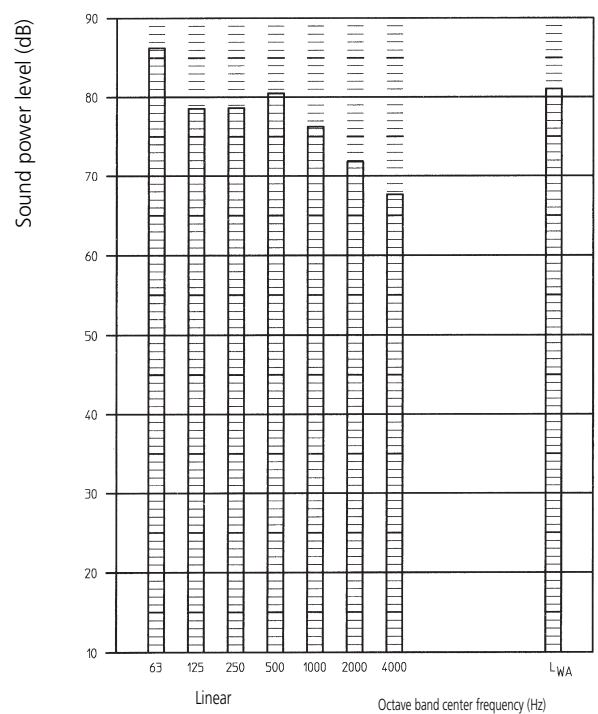
3TW50757-1

EUWY10-15HD



3TW50767-1

EUWY20-25HD

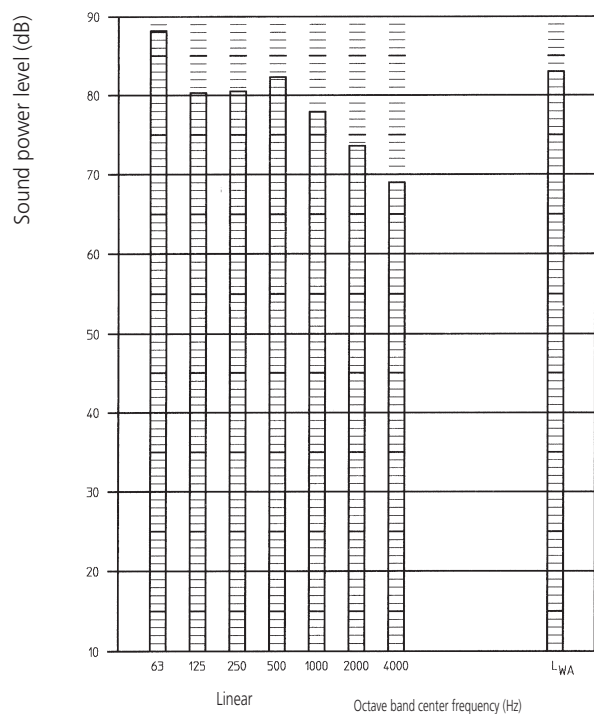


3TW50787-1

9 Sound power spectrum



EUWY30HD



3TW50807-1

NOTES

- Operation sound levels are valid at nominal operation condition
- Measured according to ISO 9614
- Reference acoustic pressure 0 dB = 1 pW

10 Installation

10-1 Selection of location + service space



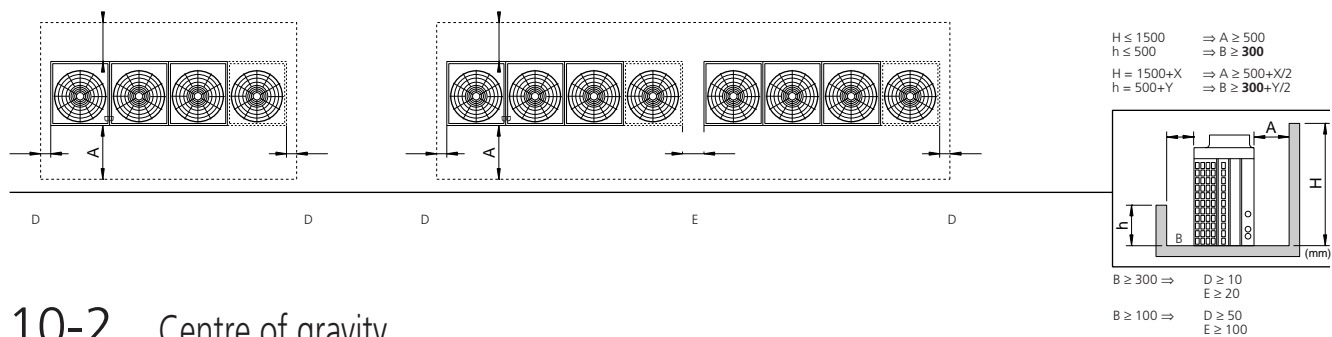
The EUWY-HD unit should be installed in a location that meets the following requirements:

1. The foundation is strong enough to support the weight of the unit and the floor is flat to prevent vibration and noise generation.
2. The space around the unit is adequate for servicing and the minimum space for air inlet and air outlet is available.
If several units are being installed side by side in parallel, the minimum service space between them must be taken into account.
3. There is no danger of fire due to leakage of inflammable gas.
4. Ensure that water cannot cause any damage to the location in case it drips out the unit (e.g. in case of defrost).
5. Select the location of the unit in such a way that neither the discharged air nor the sound generated by the unit disturb anyone.
6. Make sure that the air inlet and outlet of the unit are not positioned towards the main wind direction. Frontal wind will disturb the operation of the unit. If necessary, use a windscreen to block the wind.
7. In heavy snowfall areas, select an installation site where snow will not affect operation of the unit.
8. Make sure that the unit can be fixed directly in concrete.

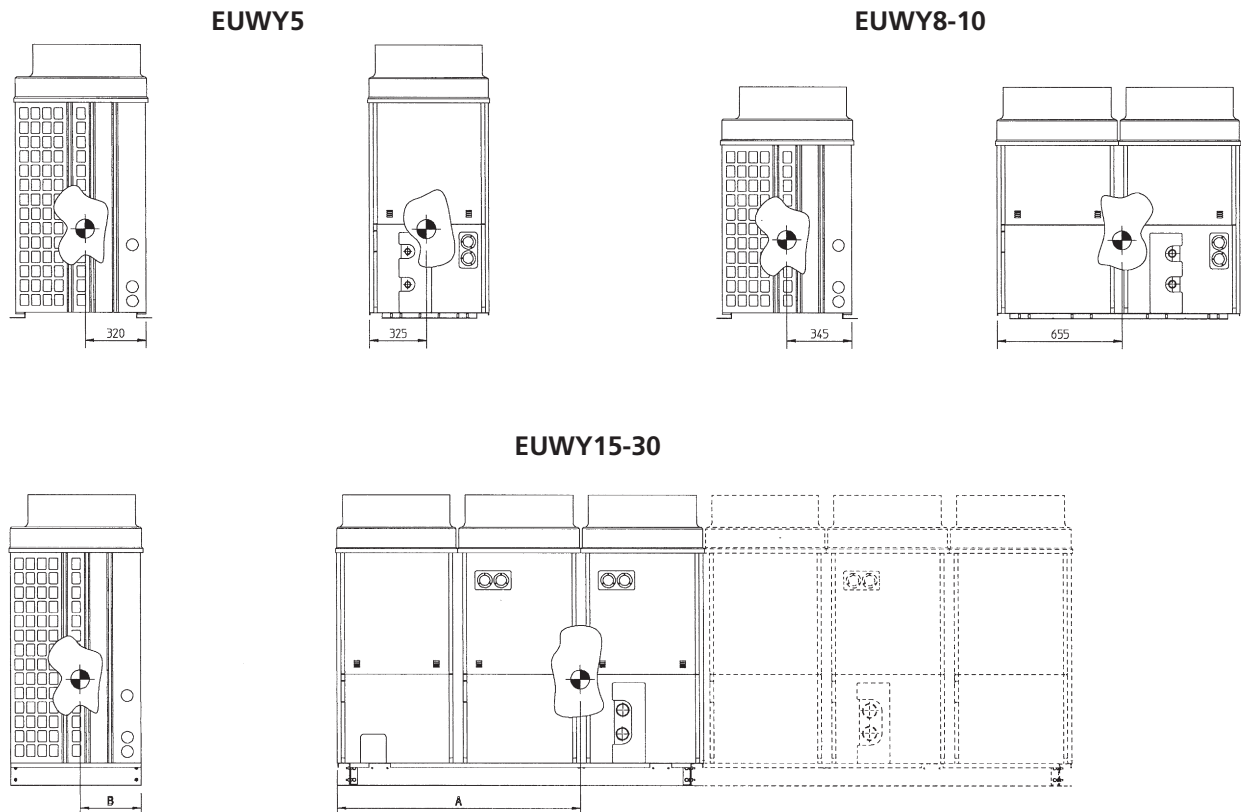
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10-1



10-2 Centre of gravity



	A	B
EUWY15	900	310
EUWY20	1100	340
EUWY25	1600	325
EUWY30	1850	340

3TW50749-2A



10 Installation

10-3 Water charge, flow and quality

To assure proper operation of the unit, a minimum water volume is required in the system and the water flow must be within the operation range as specified in the table.

	Minimum water volume (ℓ)	Minimum water flow	Maximum water flow
EUWY5HD	150/a	17 l/min	75 l/min
EUWY8HD	270/a	30 l/min	120 l/min
EUWY10HD	300/a	40 l/min	145 l/min
EUWY15HD	150/a	60 l/min	220 l/min
EUWY20HD	150/a	80 l/min	290 l/min
EUWY25HD	150/a	100 l/min	370 l/min
EUWY30HD	150/a	120 l/min	440 l/min

a: steplength (default: 1,5 K for EUWY15-30HD, 3 K for EUWY5-10HD)

Attention: the water pressure should not exceed the maximum working pressure of 10 bar.

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

ITEMS	Evaporator water		Heated water		Tendency if out of criteria
	Circulating water [<20°C]	Supply water	Circulating water [20°C-60°C]	Supply water	
Items to be controlled:					
- pH at 25°C	6.8 - 8.0	6.8 - 8.0	7.0 - 8.0	7.0 - 8.0	Corrosion + scale
- Electrical conduct (mS/m) at 25°C	Below 30	Below 30	Below 30	Below 30	Corrosion + scale
- Chloride ion (mg Cl ⁻ /l)	Below 50	Below 200	Below 30	Below 30	Corrosion
- Sulfate ion (mg SO ₄ ²⁻ /l)	Below 50	Below 50	Below 30	Below 30	Corrosion
- M-alkalinity (pH 4.8) (mg SO ₃ /l)	Below 50	Below 50	Below 50	Below 50	Scale
- Total hardness (mg CaCO ₃ /l)	Below 70	Below 70	Below 70	Below 70	Scale
- Calcium hardness (mg CaCO ₃ /l)	Below 50	Below 50	Below 50	Below 50	Scale
- Silica ion (mg SiO ₂ /l)	Below 30	Below 30	Below 30	Below 30	Scale
Items to be referred to:					
- Iron (mg Fe/l)	Below 1.0	Below 0.3	Below 1.0	Below 0.3	Corrosion + scale
- Copper (mg Cu/l)	Below 1.0	Below 0.1	Below 1.0	Below 0.1	Corrosion
- Sulfite ion (mg S ²⁻ /l)	Not detectable	Not detectable	Not detectable	Not detectable	Corrosion
- ammonium ion (mg NH ₄ ⁺ /l)	Below 0.3	Below 0.1	Below 0.1	Below 0.1	Corrosion
- Remaining chloride (mg Cl/l)	Below 0.25	Below 0.3	Below 0.1	Below 0.3	Corrosion
- Free carbide (mg SO ₂ /l)	Below 0.4	Below 4.0	Below 0.4	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.



10 Installation

10-4 Operation pressure refrigerant circuit

It is important to check the high and low pressure of the refrigerant circuit to ensure the proper operation of the unit and to guarantee that the rated output will be obtained.

Attention:

The pressures measured will vary between a maximum and minimum value, depending on the water and outdoor temperatures (at the moment of measurement).

Cooling mode	Minimum (outdoor temp. 15°CDB) (leaving water temp. 4°C)	Nominal (outdoor temp. 35°CDB) (leaving water temp. 7°C)	Maximum (outdoor temp. 38°CDB) (leaving water temp. 25°CDB)
Low pressure	4 bar	5 bar	8.5 bar
High pressure	7 bar	20 bar	22 bar

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10-4

Heating mode	Minimum (outdoor temp. -10°CDB) (leaving water temp. 35°C)	Nominal (outdoor temp. 7°CDB) (leaving water temp. 45°C)	Maximum (outdoor temp. 21°CDB) (leaving water temp. 55°CDB)
Low pressure	1 bar	2.5 bar	5 bar
High pressure	15 bar	19 bar	24 bar

10-5 Power circuit and cable requirements

A power circuit (see table below) must be provided for connection of the air conditioning unit. This circuit must be protected with the required safety devices, i.e. a circuit breaker, a slow blow fuse on each phase and an earth leak detector.

	Phase and frequency	Voltage	Recommended fuses
EUWY5HDW1	3N~50Hz	400V	20 aM
EUWY8HDW1	3N~50Hz	400V	25 aM
EUWY10HDW1	3N~50Hz	400V	32 aM
EUWY15HDW1	3N~50Hz	400V	40 aM
EUWY20HDW1	3N~50Hz	400V	50 aM
EUWY25HDW1	3N~50Hz	400V	63 aM
EUWY30HDW1	3N~50Hz	400V	80 aM

Note: select the power cable in accordance with relevant local and national regulations.

Attention: switch off the main isolator switch before making any connections (switch off the circuit breaker, remove or switch off the fuses).

10 Installation

10-6 Digital controller



User interface EUWY5-10HD

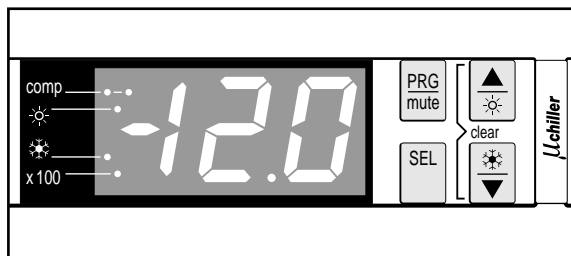
The digital controller consists of a numeric display, four labelled keys which you can press and four LEDs providing extra user information.

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10-6

Digital controller



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.



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



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.



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.



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.



LED, indicates that cooling mode is active.



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

Note:

- Temperature readout tolerance: $\pm 1^{\circ}\text{C}$.
- Legibility of the numeric display may decrease in direct sunlight.

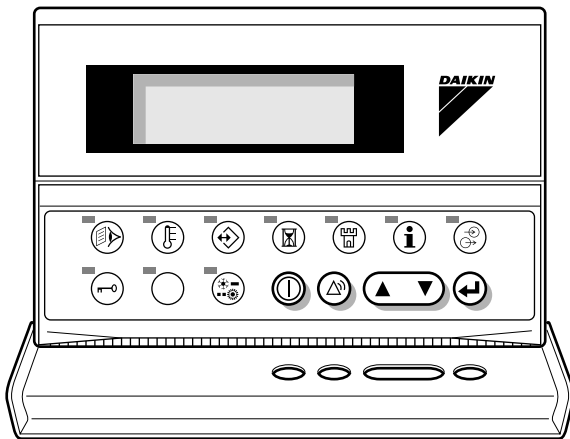
10 Installation







User interface EUWY15-30HD






The digital controller consists of an alphanumeric display, labelled keys which you can press, a number of LEDs indicating the selected menu and a hinged cover. When the cover is closed, only the most frequently used keys are accessible.

Digital controller







Keys accessible when the cover is closed:

-  Key, to start up or to shut down the unit.
-  Key, to enter the safeties menu or to reset an alarm.
-  Key, to scroll through the screens of a menu (only in case Δ , ∇ or Δ/∇ appears) or to raise, respectively lower a setting.
-  Key, to confirm a selection or a setting.

-  Key, to enter the history menu.
-  Key, to enter the info menu.
-  Key, to enter the input/output status menu.
-  Key, to enter the user password menu.
-  Key, to select cooling or heating mode.

Keys only accessible when the cover is open:

-  Key, to enter the readout menu.
-  Key, to enter the setpoints menu.
-  Key, to enter the user settings menu.
-  Key, to enter the timers menu.

Note:

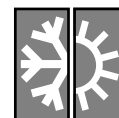
- Temperature readout tolerance: $\pm 1^{\circ}\text{C}$.
- Legibility of the alphanumeric display may decrease in direct sunlight.

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10-6

10 Installation



Connection to the unit

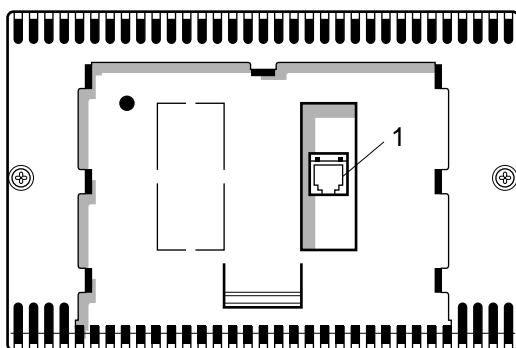
The digital controller is connected to the unit, more specifically to the controller PCB inside the unit, by means of a 6-ray cable and a connector located on the rear side of the controller. A cable length of up to 1,000 metres between the digital controller and the unit is allowed. This gives the opportunity to control the unit from a considerable distance. Refer to 'Cable for digital controller' in the installation manual for cable specifications.

Rear side of the controller and its connector (1).

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10-6





11 Accessories & options

Number	Description	3 digit code	Unit size							Availability
			5	8	10	15	20	25	30	
	Standard unit	Blank	○	○	○	○	○	○	○	
	Not completely combinable options	1st digit								
	Display language (GER)	2	—	—	—	○	○	○	○	Factory mounted
	Completely combinable options	2nd/3rd digit								
ESP	Fan motor size up (high esp 5mmH ₂ O)	4	○	○	○	○	○	○	○	Factory mounted
	Available kits									
EKGAU5/8/10H	Gauges kit 5/8/10Hp-units		○	○	○	—	—	—	—	Kit
EKGAU15/20H	Gauges kit 15/20Hp-units		—	—	—	○	○	○	—	Kit
EKGAU25/30H	Gauges kit 25/30Hp-units		—	—	—	—	—	○	○	Kit
NDJ26K140 (!)	Short duct for EUWAY		○1	—	—	○1	—	○1	—	Kit
NDJ26K280 (!)	Short duct for EUWAY		—	○1	○1	○1	○2	○2	○3	Kit
KPSJ26K280L	Windscreen left for EUWAY5H		○1	—	○1	○1	○1	○1	○1	Kit
KPSJ26K280R	Windscreen right for EUWAY5H		○1	—	○1	○1	○1	○1	○1	Kit
KPSJ26K160B	Windscreen back EUWAY5H		○1	—	—	○1	—	○1	—	Kit
KPSJ26K280B	Windscreen back EUWAY10H		—	—	○1	○1	○2	○2	○3	Kit
KPSJ26K140L	Windscreen left EUWAY8H		—	○1	—	—	—	—	—	Kit
KPSJ26K140R	Windscreen right EUWAY8H		—	○1	—	—	—	—	—	Kit
KPSJ26K224B	Windscreen back EUWAY8H		—	○1	—	—	—	—	—	Kit

NOTES

- (!) Always in combination with esp
Impossible option combinations:
Windscreen + short duct

SYMBOLS

- Available
○x Available and a quantity of x is needed for this unit size
— Not available