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EUWA5-35HDZ

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Features



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The Daikin EUWA-HDZ series are packaged air-cooled water chillers with cooling applications for outdoor installation. They are available in 9 models with nominal cooling capacities ranging from 10.1 to 79.5kW.

- Daikin scroll compressor
- Optimised design for use with R-407C refrigerant
- Low operating sound level
- Electronic DDC controller
- Low energy consumption
- High quality, anti-corrosion treated components as standard
- Compact dimensions and low refrigerant volume
- Easy installation and maintenance
- Pre-coated condenser coil fins
- Stainless steel plate heat exchanger



2 Specifications


1
2

NOMINAL CAPACITY, CAPACITY STEPS and NOMINAL INPUT							
UNITS			EUWA5HDZ	EUWA8HDZ	EUWA10HDZ	EUWA12HDZ	EUWA15HDZ
NOMINAL CAPACITY	Cooling	kW	10.1	17.7	22.7	26.5	32.8
CAPACITY STEPS		%	100	100	100	100	100-66
NOMINAL INPUT	Cooling	kW	4.2	7.2	8.5	10.6	12.7

TECHNICAL SPECIFICATIONS								
UNITS				EUWA5HDZ	EUWA8HDZ	EUWA10HDZ	EUWA12HDZ	EUWA15HDZ
DIMENSIONS	Unit	H	mm	1,444	1,220	1,444	1,444	1,535
		W	mm	645	1,290	1,290	1,290	1,930
		D	mm	700	700	700	700	700
WEIGHT	Machine weight		kg	135	200	230	233	375
	Operation weight		kg	137	202	233	236	380
MATERIAL				Polyester coated galvanised steel plate				
COLOUR				Ivory white / Munsell code 5Y7.5/1				
SOUND LEVEL (2)	Sound pressure		dBA	56	61	61	61	62
	Sound power		dBA	69	78	78	78	78
FAN	Air flow rate		m³/min	80	170	170	170	170 + 80
	Type			Direct drive				
	Qty x model			1	2	2	2	3
	No. of motors x output		kW	1 x 140	190 + 230	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 CB52-24H	1 x CB52-34H	1 x CB52-44H	1 x CB52-60H	1 x CB52-44H + 1 x CB52-24H
	Minimum water volume in the system		l	50	90	100	130	100
	Water flow range		l/min	18-60	30-100	38-120	48-150	56-180
	Nominal water flow		l/min	29	51	65	76	94
	Nominal water pressure drop		kPa	35	35	35	30	35
	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 2.0	2 x 40 x 2.0	2 x 50 x 2.0	2 x 50 x 2.0	2 x 50 x 2.0
	Face area		m²	1.26	1.57	1.97	1.97	1.97 + 1.26
REFRIGERANT CIRCUIT	Refrigerant type			R-407C	R-407C	R-407C	R-407C	R-407C
	Refrigerant charge		kg	3.2	4.0	5.6	5.1	5.6 + 3.2
	No. of circuits			1	1	1	1	2
	Refrigerant control			Expansion valve				
COMPRESSOR	Type			Hermetically sealed scroll				
	Qty x model		W1	JT140BF-YE	JT212DA-YE	JT265DA-YE	JT335DA-YE	JT265DA-YE + JT140BF-YE
	No. of compressors			1	1	1	1	2
	Speed		rpm	2,900	2,900	2,900	2,900	2,900
	Refrigerant oil			FVC68D				
	Refrigerant oil charge		l	1.5	2.7	2.7	2.7	2.7 + 1.5
	Crankcase heater		W	33	50	50	50	50 + 33
PIPING CONNECTIONS	PHE water in-/outlet			FBSP 3/4"	FBSP 1"	FBSP 1"	FBSP 1-1/4"	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				

2 Specifications


1
2

NOMINAL CAPACITY, CAPACITY STEPS and NOMINAL INPUT						
UNITS			EUWA20HDZ	EUWA25HDZ	EUWA30HDZ	EUWA35HDZ
NOMINAL CAPACITY	Cooling	kW	45.4	53.0	68.1	79.5
CAPACITY STEPS		%	100-50	100-50	100-66-33	100-66-33
NOMINAL INPUT	Cooling	kW	17.0	21.2	25.5	31.8

TECHNICAL SPECIFICATIONS							
UNITS				EUWA20HDZ	EUWA25HDZ	EUWA30HDZ	EUWA35HDZ
DIMENSIONS	Unit	H	mm	1,535	1,535	1,535	1,535
		W	mm	2,575	2,575	3,865	3,865
		D	mm	700	700	700	700
WEIGHT	Machine weight		kg	510	510	780	780
	Operation weight		kg	516	516	789	789
MATERIAL				Polyester coated galvanised steel plate			
COLOUR				Ivory white / Munsell code 5Y7.5/1			
SOUND LEVEL (2)	Sound pressure		dB(A)	64	64	67	67
	Sound power		dB(A)	81	81	83	83
FAN	Air flow rate		m³/min	2 x 170	2 x 170	3 x 170	3 x 170
	Type			Direct drive			
	Qty x model			4	4	6	6
	No. of motors x output		kW	2 x 190 + 2 x 230	2 x 190 + 2 x 230	3 x 190 + 3 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 CB52-44H	2 x CB52-60H	3 x CB52-44H	3 x CB52-60H
	Minimum water volume in the system		l	100	130	100	100
	Water flow range		l/min	76-240	96-300	114-360	144-450
	Nominal water flow		l/min	156	152	195	228
	Nominal water pressure drop		kPa	36	42	36	42
	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 2.0	2 x 50 x 2.0	2 x 50 x 2.0	2 x 50 x 2.0	
Face area		m²	2 x 1.97	2 x 1.97	3 x 1.97	3 x 1.97	
REFRIGERANT CIRCUIT	Refrigerant type			R-407C	R-407C	R-407C	R-407C
	Refrigerant charge		kg	2 x 5.6	2 x 5.1	3 x 5.6	3 x 5.1
	No. of circuits			2	2	3	3
	Refrigerant control			Expansion valve			
COMPRESSOR	Type			Hermetically sealed scroll			
	Qty x model		W1	JT265DA-YE	JT335DA-YE	JT265DA-YE	JT335DA-YE
	No. of compressors			2	2	3	3
	Speed		rpm	2,900	2,900	2,900	2,900
	Refrigerant oil			FVC68D			
	Refrigerant oil charge		l	2 x 2.7	2 x 2.7	3 x 2.7	3 x 2.7
	Crankcase heater		W	2 x 50	2 x 50	3 x 50	3 x 50
PIPING CONNECTIONS	PHE water in-/outlet			FBSP 2"	FBSP 2"	FBSP2-1/2"	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


1
2

ELECTRICAL SPECIFICATIONS							
UNITS			EUWA5HDZ	EUWA8HDZ	EUWA10HDZ	EUWA12HDZ	EUWA15HDZ
POWER SUPPLY			W1	W1	W1	W1	W1
NOMINAL DISTRIBUTION SYSTEM VOLTAGE	Phase		3N~	3N~	3N~	3N~	3N~
	Frequency	Hz	50	50	50	50	50
	Voltage	V	400	400	400	400	400
	Voltage tolerance	%	± 10%	± 10%	± 10%	± 10%	± 10%
UNIT	Starting current	A	52	84	114	134	114
	Nominal running current	A	7.0	11.2	13.9	17.5	20.9
	Maximum running current	A	11.3	20.5	23.5	20.8	34.7
	Recommended fuses according to IEC standard 269-2	aM	3 x 20	3 x 25	3 x 32	3 x 32	3 x 40
COMPRESSOR	Phase		3~	3~	3~	3~	3~
	Voltage	V	400	400	400	400	400
	Starting current	A	49	79	109	129	109/49
	Nominal running current	A	6.6	10.4	13.1	15.0	19.7
	Maximum running current	A	10.0	18.0	21.0	17.9	21/10
	Starting method		Direct on line				
CONTROL CIRCUIT	Phase		1~	1~	1~	1~	1~
	Voltage	V	230	230	230	230	230
	Recommended fuses	aM	Factory installed				

2 Specifications


1
2

ELECTRICAL SPECIFICATIONS							
UNITS			EUWA20HDZ	EUWA25HDZ	EUWA30HDZ	EUWA35HDZ	
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	114	134	114	134
	Nominal running current		A	27.8	35.0	41.7	52.5
	Maximum running current		A	46.9	41.6	70.5	62.4
	Recommended fuses according to IEC standard 269-2		aM	3 x 50	3 x 50	3 x 80	3 x 80
COMPRESSOR	Phase		3~	3~	3~	3~	
	Voltage	V	400	400	400	400	
	Starting current		A	109	120	109	120
	Nominal running current		A	26.2	30	39.3	45
	Maximum running current		A	21	35.8	21/34	21
	Starting method		Direct on line				
CONTROL CIRCUIT	Phase		1~	1~	1~	1~	
	Voltage	V	230	230	230	230	
	Recommended fuses		aM	Factory installed			

NOTES

- Nominal capacities are based on the following conditions:
 - Entering / leaving chilled water temperature: 12.5/7°C
 - Ambient temperature: 35°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 (5/8/10/12hp); 1.5K (15/20/25/35hp)
For reduced setting multiply this water volume by 3 (5/8/10/12hp); 1.5 (15/20/25/35hp) / new setting
Min. allowable setting = 0.1K (5/8/10/12hp); 0.4K (15/20/25/35hp)

Capacity tables

3-1 Cooling capacities for air conditioning applications



1

3

3-1

AMBIENT TEMPERATURE (°C)		15		20		25		30		35		39	
LWE (°C)	MODEL	CC	PI	CC	PI	CC	PI	CC	PI	CC	PI	CC	PI
4	5	9.9	2.5	9.5	2.9	9.2	3.2	8.9	3.6	8.6	4.0	8.4	4.5
	8	17.6	4.5	17.0	5.0	16.6	5.6	15.9	6.2	15.3	7.0	14.7	7.4
	10	22.2	5.2	21.8	6.0	21.0	6.7	20.2	7.5	19.5	8.2	18.9	9.0
	12	30.7	6.3	29.1	7.3	27.5	8.3	25.9	9.4	24.3	10.4	23.1	11.3
	15	32.1	7.7	31.3	8.9	30.2	9.9	29.1	11.1	28.1	12.2	27.3	13.5
	20	44.4	10.4	43.6	12.0	42.0	13.4	40.4	15.0	39.0	16.4	37.8	18.0
	25	61.4	12.6	58.2	14.6	55.0	16.6	51.8	18.8	48.6	20.8	46.2	22.6
	30	66.6	15.6	65.4	18.0	63.0	20.1	60.6	22.5	58.5	24.6	56.7	27.0
7	35	92.1	18.9	87.3	1.9	82.5	24.9	77.7	28.2	72.9	31.2	69.3	33.9
	5	11.3	2.7	10.9	3.0	10.6	3.4	10.4	3.8	10.1	4.2	9.8	4.6
	8	19.8	4.7	19.1	5.2	18.6	5.8	18.1	6.4	17.7	7.2	17.0	7.6
	10	25.5	5.4	24.7	6.3	24.1	7.0	23.4	7.8	22.7	8.5	22.0	9.2
	12	32.6	6.5	31.1	7.5	29.5	8.6	28.0	9.6	26.5	10.6	25.3	11.4
	15	36.8	8.1	35.6	9.3	34.7	10.4	32.9	11.6	32.8	12.7	31.8	13.8
	20	51.0	10.9	49.4	12.5	48.2	14.0	45.0	15.6	45.4	17.0	44.0	18.4
	25	65.2	13.0	62.2	15.0	59.0	17.2	56.0	19.2	53.0	21.2	50.6	22.8
10	30	76.5	16.3	74.1	18.8	72.3	21.0	67.5	23.4	68.1	25.5	66.0	27.6
	35	97.8	19.5	93.3	22.5	88.5	25.8	84.0	28.8	79.5	31.8	75.9	34.2
	5	12.3	2.9	12.0	3.2	11.7	3.5	11.4	4.0	11.1	4.3	10.6	4.7
	8	21.4	4.9	20.8	5.4	20.3	6.0	19.8	6.7	19.2	7.4	18.6	7.8
	10	27.8	5.7	26.9	6.5	26.1	7.3	25.5	8.1	24.6	8.8	24.0	9.5
	12	34.5	6.8	33.0	7.8	31.6	8.8	30.1	9.8	28.7	10.8	27.5	11.6
	15	38.0	8.6	38.9	9.7	37.8	10.9	36.9	12.0	35.7	13.1	34.6	14.2
	20	55.6	11.4	53.8	13.0	52.2	14.5	51.0	16.1	49.2	17.6	48.0	18.9
13	25	69.0	13.6	66.0	15.6	63.2	17.6	60.2	19.6	57.2	21.6	55.0	23.2
	30	83.4	17.1	80.7	19.5	78.3	21.8	76.5	24.2	73.8	26.4	72.0	28.4
	35	103.5	20.4	99.0	23.4	94.8	26.4	90.3	29.4	86.1	32.4	82.5	34.8
	5	13.1	3.1	12.8	3.4	12.5	3.8	12.1	4.1	11.8	4.4	11.4	4.8
	8	22.9	5.1	22.1	5.6	21.6	6.2	21.2	6.9	20.6	7.5	19.9	8.0
	10	29.8	6.0	28.8	6.8	28.1	7.5	27.2	8.3	26.3	9.0	25.5	9.7
	12	36.4	7.0	35.0	8.0	33.6	9.0	32.2	10.0	30.8	10.9	29.7	11.7
	15	42.9	9.1	41.6	10.2	40.6	11.3	39.3	12.4	38.1	13.5	36.9	14.5
16	20	59.6	12.0	57.6	13.6	56.2	15.0	54.4	16.6	52.6	18.1	51.0	19.4
	25	72.8	14.0	70.0	16.0	67.2	18.0	64.4	20.0	61.6	21.8	59.4	23.4
	30	89.4	18.0	86.4	20.4	84.3	22.5	81.6	24.9	78.9	27.1	76.5	29.1
	35	109.2	21.0	105.0	24.0	100.8	27.0	96.6	30.0	92.4	32.7	89.1	35.1
	5	13.7	3.3	13.4	3.6	13.1	3.9	12.8	4.2	12.5	4.5	12.0	4.9
	8	24.0	5.3	23.3	5.8	22.9	6.4	22.3	7.1	21.8	7.7	21.1	8.2
	10	31.5	6.2	30.3	7.0	29.7	7.8	28.8	8.6	27.8	9.3	26.8	10.0
	12	38.3	7.3	37.0	8.3	35.7	9.2	34.3	10.2	33.0	11.1	31.9	11.9
19	15	45.2	9.5	43.7	10.6	42.8	11.7	41.6	12.8	40.3	13.8	38.8	14.9
	20	63.0	12.4	60.6	14.0	59.4	15.6	57.6	17.2	55.6	18.6	53.6	20.0
	25	76.6	14.6	74.0	16.6	71.4	18.4	68.6	20.4	66.0	22.2	63.8	23.8
	30	94.5	18.6	90.9	21.0	89.1	23.4	86.4	25.8	83.4	27.9	80.4	30.0
	35	114.9	21.9	111.0	24.9	107.1	27.6	102.9	30.6	99.0	33.3	95.7	35.7
	5	14.2	3.5	13.9	3.8	13.6	4.1	13.3	4.3	13.0	4.6	12.5	4.9
	8	25.3	5.5	24.6	6.0	24.1	6.6	23.4	7.3	22.9	7.9	22.1	8.4
	10	32.8	6.4	31.6	7.2	30.9	8.0	29.8	8.8	28.8	9.6	28.0	10.2
	12	40.3	7.6	39.0	8.5	37.7	9.4	36.4	10.4	35.2	11.3	34.1	12.0
	15	47.0	9.9	45.5	11.0	44.5	12.1	43.1	13.1	41.8	14.2	40.5	15.1
	20	65.6	12.8	63.2	14.4	61.8	16.0	59.6	17.6	57.6	19.2	56.0	20.4
	25	80.6	15.2	78.0	17.0	75.4	18.8	81.8	20.8	70.4	22.6	68.2	24.0
	30	98.4	19.2	94.8	21.6	92.7	24.0	89.4	26.4	86.4	28.8	84.0	30.6
	35	120.9	22.8	117.0	25.5	113.1	28.2	109.2	31.2	105.6	35.7	102.3	36.0

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 Cooling capacities with glycol for process cooling application

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3-2

AMBIENT TEMPERATURE (°C)		15		20		25		30		35		39	
LWE (°C)	MODEL	CC	PI	CC	PI	CC	PI	CC	PI	CC	PI	CC	PI
-10	5	4.9	1.4	4.6	2.1	4.4	2.7	4.1	3.3	3.8	4.0	-	-
	8	8.9	3.1	8.4	3.7	7.9	4.3	7.3	4.9	6.8	5.5	-	-
	10	10.5	4.1	9.9	4.9	9.3	5.6	8.7	6.4	8.1	7.2	-	-
	12	13.2	5.1	12.4	6.1	11.7	7.1	10.9	8.1	10.1	9.2	-	-
	15	15.4	5.8	14.5	7.2	13.7	8.5	12.8	9.9	11.8	11.2	-	-
	20	21.0	8.3	19.8	9.9	18.6	11.4	17.3	13.0	16.1	14.6	-	-
	25	26.3	10.2	24.8	12.2	23.3	14.2	21.7	16.2	20.2	18.3	-	-
	30	31.5	12.5	29.7	15.5	27.8	17.5	26.0	19.5	24.2	21.5	-	-
	35	39.6	15.3	37.2	18.3	35.1	21.3	32.7	24.3	30.3	27.6	-	-
	35	39.6	15.3	37.2	18.3	35.1	21.3	32.7	24.3	30.3	27.6	-	-
-8	5	5.7	1.6	5.4	2.2	5.1	2.8	4.8	3.4	4.5	4.0	-	-
	8	10.3	3.3	9.7	3.8	9.1	4.4	8.6	5.0	8.1	5.6	-	-
	10	12.0	4.2	11.4	5.0	10.7	5.8	10.1	6.6	9.5	7.3	-	-
	12	15.1	5.4	14.4	6.4	13.5	7.4	12.7	8.4	12.0	9.4	-	-
	15	17.7	6.1	16.8	7.5	15.8	8.8	14.9	10.1	14.0	11.4	-	-
	20	24.1	8.6	22.8	10.2	21.4	11.8	20.2	13.3	19.0	14.9	-	-
	25	30.2	10.7	28.7	12.7	26.9	14.7	25.4	16.7	23.9	18.8	-	-
	30	36.1	13.8	34.3	15.9	32.1	17.9	30.3	20.0	28.5	22.0	-	-
	35	45.3	16.2	43.2	19.2	40.5	22.2	38.1	25.2	34.0	28.2	-	-
	35	45.3	16.2	43.2	19.2	40.5	22.2	38.1	25.2	34.0	28.2	-	-
-6	5	6.4	1.7	6.1	2.3	5.8	2.9	5.4	3.5	5.1	4.1	-	-
	8	11.5	3.4	10.9	4.0	10.4	4.5	9.8	5.1	9.3	5.7	-	-
	10	13.6	4.4	13.0	5.2	12.2	5.9	11.6	6.7	10.9	7.5	-	-
	12	17.1	5.6	16.3	6.6	15.4	7.6	14.6	8.6	13.7	9.6	-	-
	15	20.0	6.4	19.1	7.7	18.1	9.1	17.0	10.4	16.0	11.7	-	-
	20	27.1	9.0	25.9	10.5	24.5	12.1	23.3	13.7	21.8	15.2	-	-
	25	34.1	11.1	32.5	13.1	30.8	15.1	29.1	17.2	27.3	19.2	-	-
	30	40.7	14.2	38.9	16.3	36.7	18.4	34.9	20.4	32.7	22.5	-	-
	35	51.3	16.8	48.9	19.8	46.2	22.8	43.8	25.8	41.1	28.8	-	-
	35	51.3	16.8	48.9	19.8	46.2	22.8	43.8	25.8	41.1	28.8	-	-
-4	5	7.1	1.9	6.8	2.4	6.4	3.0	6.1	3.6	5.8	4.1	5.5	4.5
	8	12.9	3.5	12.2	4.1	11.6	4.7	11.0	5.2	10.5	5.8	10.0	6.3
	10	15.2	4.6	14.5	5.3	13.8	6.1	13.1	6.9	12.3	7.6	11.7	8.3
	12	19.1	5.8	18.2	6.8	17.3	7.8	16.4	8.8	15.5	9.8	14.7	10.6
	15	22.3	6.7	21.3	8.0	20.2	9.3	19.2	10.6	18.2	11.9	17.2	12.9
	20	30.4	9.3	29.0	10.9	27.5	12.4	26.1	14.0	24.7	15.5	23.5	16.8
	25	38.1	11.5	36.3	13.5	34.5	15.5	32.7	17.6	31.0	19.6	29.4	21.1
	30	45.6	14.6	43.5	16.7	41.3	18.8	39.2	20.9	37.0	23.0	35.2	24.7
	35	57.3	17.4	54.6	20.4	51.9	23.4	49.2	26.4	46.5	29.4	44.1	31.8
	35	57.3	17.4	54.6	20.4	51.9	23.4	49.2	26.4	46.5	29.4	44.1	31.8
-2	5	7.9	2.0	7.5	2.6	7.1	3.1	6.8	3.6	6.5	4.1	6.2	4.6
	8	14.2	3.6	13.6	4.2	13.0	4.8	12.3	5.4	11.7	5.9	11.2	6.4
	10	16.7	4.7	16.0	5.5	15.3	6.3	14.5	7.0	13.8	7.8	13.2	8.4
	12	21.0	6.0	20.1	7.0	19.2	8.0	18.2	9.0	17.3	10.0	16.5	10.8
	15	24.6	7.1	23.6	8.3	22.4	9.6	21.3	10.9	20.3	12.1	19.4	13.2
	20	33.5	9.6	32.0	11.2	30.6	12.7	29.0	14.3	27.5	15.9	26.3	17.1
	25	41.9	12.0	40.2	13.9	38.3	15.9	36.3	18.0	34.6	20.0	33.0	21.5
	30	50.2	14.9	48.0	17.1	45.9	19.2	43.5	21.4	41.3	23.6	39.5	25.3
	35	63.0	18.0	60.3	21.0	57.6	24.0	54.6	27.0	51.9	30.0	49.5	32.4
	35	63.0	18.0	60.3	21.0	57.6	24.0	54.6	27.0	51.9	30.0	49.5	32.4
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	10	18.3	4.9	17.5	5.7	16.7	6.4	16.0	7.2	15.2	8.0	14.6	8.6
	12	22.9	6.2	22.1	7.2	21.0	8.2	20.1	9.2	19.1	10.2	18.3	11.0
	15	26.8	7.4	25.8	8.6	24.6	9.9	23.6	11.1	22.3	12.4	21.4	13.4
	20	36.5	9.9	35.1	11.5	33.5	13.1	32.0	14.6	30.4	16.2	29.2	17.5
	25	45.8	12.4	44.1	14.4	41.9	16.3	40.2	18.4	38.1	20.4	36.5	21.9
	30	54.8	15.3	52.6	17.5	50.2	19.7	48.0	21.9	45.6	24.1	43.8	25.8
	35	68.7	18.6	66.3	21.6	63.0	24.6	60.3	28.6	57.6	30.6	54.9	33.0
	35	68.7	18.6	66.3	21.6	63.0	24.6	60.3	28.6	57.6	30.6	54.9	33.0
2	5	9.4	2.3	9.0	2.8	8.6	3.3	8.3	3.8	7.9	4.7	7.5	4.6
	8	16.8	3.9	16.1	4.4	15.5	5.0	14.8	5.6	14.1	6.2	13.6	6.7
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	12	25.0	6.4	23.9	7.4	22.9	8.4	21.9	9.4	20.9	10.4	20.1	11.2
	15	29.3	7.7	28.1	8.9	26.8	10.1	25.7	11.4	24.5	12.6	23.6	13.6
	20	39.8	10.3	38.1	11.8	36.5	13.4	34.9	15.0	33.3	16.5	32.0	17.8
	25	50.0	12.8	47.9	14.8	45.8	16.8	43.8	18.8	41.7	20.8	40.2	22.3
	30	59.7	15.6	57.2	17.9	54.8	20.1	52.3	22.4	49.9	24.6	48.0	26.4
	35	75.0	19.2	71.7	22.2	68.7	25.2	65.7	28.2	62.7	31.2	60.3	33.6
	35	75.0	19.2	71.7	22.2	68.7	25.2	65.7	28.2	62.7	31.2	60.3	33.6

SYMBOLS

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

NOTES

- 1 **Cooling capacity (CAP)**
 CAP = Cool. Cap. from table (kW)
 NOTE: Capacity is for chilled water range Dt = 3-8°C
- 2 **Power input (PC)**
 PI = Power input from table (kW)
 NOTE: Power input is total input: compressor + fans + control circuit + pumps

3

Water flow rate (WFR)

WFR = (860 x CAP)/(60 x Dt) (l/min)
 CAP = From above calculation
 Dt = Chilled water temperature rise within 3~8°C
 NOTE: WFR should always be within the limits

4

Water pressure drop through the evaporator (PDw)

PDw = Water pressure drop from water pressure drop curve at above calculated WFR.

5

CAP and PI are according to the Eurovent rating standard 6/C/003-96.

Shows nominal cooling capacities

3 Capacity tables

3-2 Cooling capacities with glycol for process cooling application



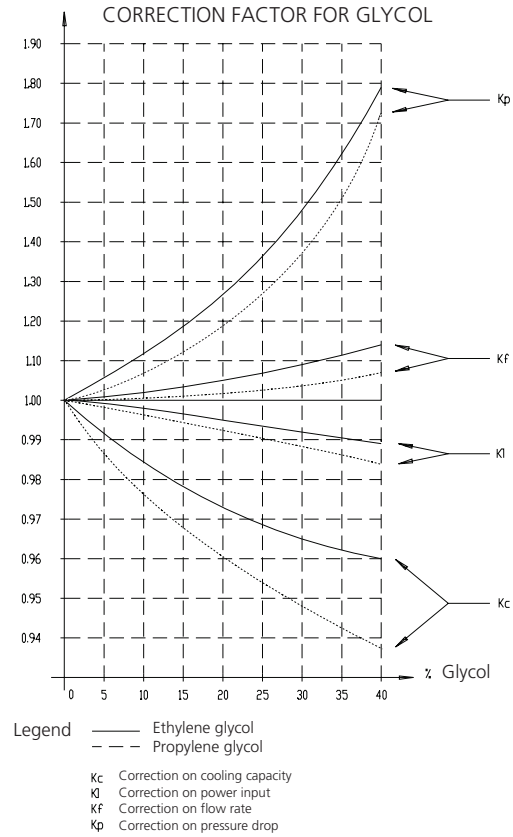
1

3

3-2

Required glycol concentration

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



4TW50689-8

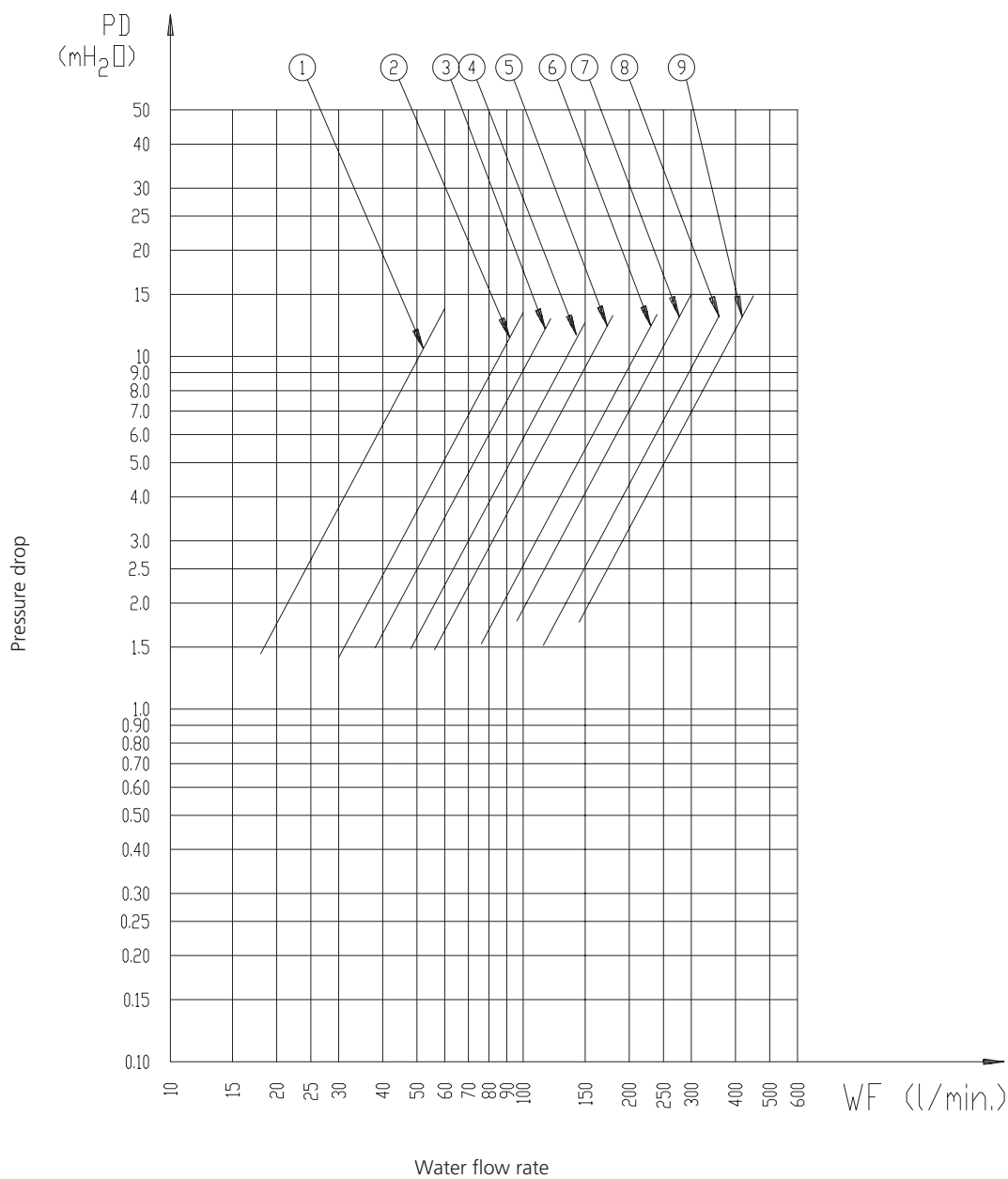


4 Water pressure drop curve

1

4

EUWA5-35HDZ



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

- ① EUWA5HDZ
- ② EUWA8HDZ
- ③ EUWA10HDZ
- ④ EUWA12HDZ
- ⑤ EUWA15HDZ
- ⑥ EUWA20HDZ
- ⑦ EUWA25HDZ
- ⑧ EUWA30HDZ
- ⑨ EUWA35HDZ

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.

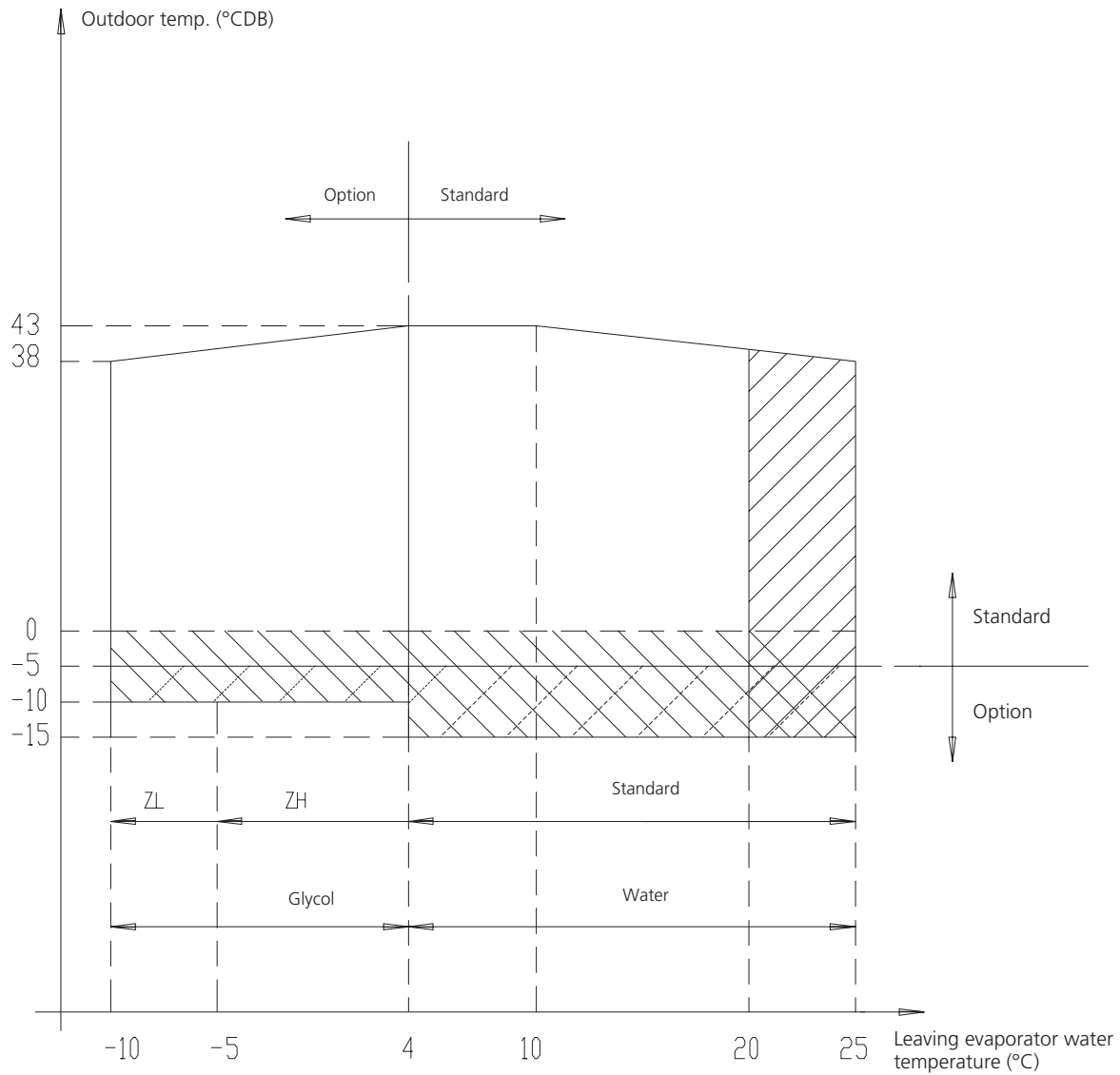
5 Operation range



1

5

EUWA5-35HDZ



Pull down area



Protect the water circuit against freezing



for

* EUWA8-10HDZ

- If the units operate below -5°C and are installed in a rather windy space, a windscreen is required. Daikin offers a windscreen as option for this purpose.
- An extra fan speed control is required (Daikin Option kit EKHP8/10H).

* EUWA5-12-15-20-25-30-35HDZ

- If the units operate below -5°C and are installed in a rather windy space, a windscreen is required. Daikin offers a windscreen as option for this purpose.

6 Dimensional drawings

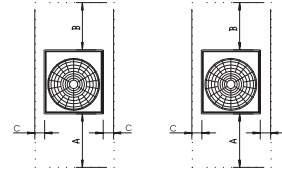
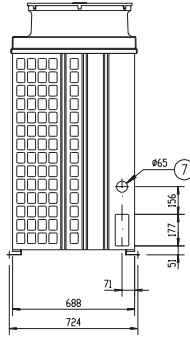
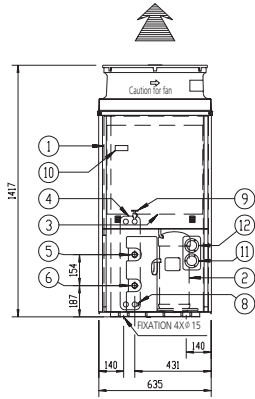


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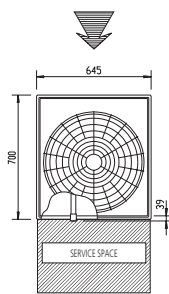
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EUWA5HDZ

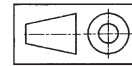
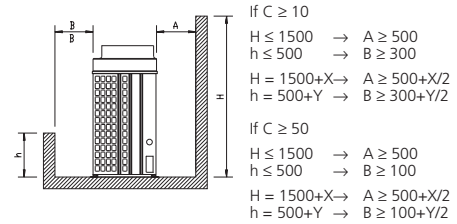
Free space min. 3 m



Free space B



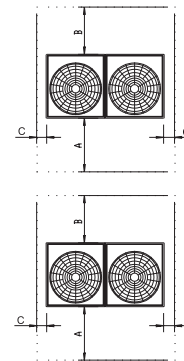
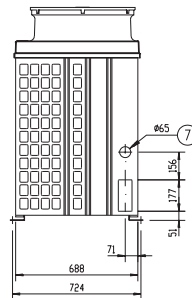
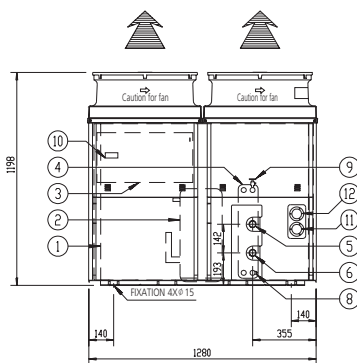
- 1 Air heat exchanger
- 2 Compressor
- 3 Switch box
- 4 Water heat exchanger
- 5 Water IN connection 3/4" BSP
- 6 Water OUT connection 3/4" BSP
- 7 Power supply intake
- 8 Drain
- 9 Air purge
- 10 Electronic controller
- 11 Low pressure gauge (optional)
- 12 High pressure gauge (optional)



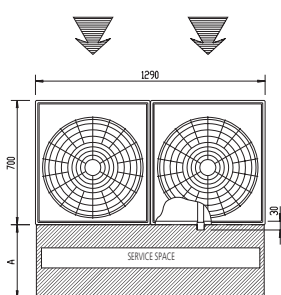
3TW50744-1B

EUWA8HDZ

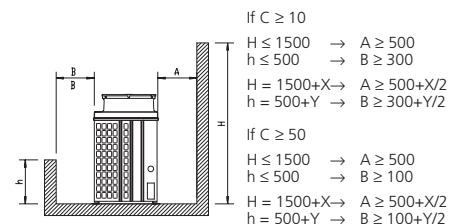
Free space min. 3 m



Free space B



- 1 Air heat exchanger
- 2 Compressor
- 3 Switch box
- 4 Water heat exchanger
- 5 Water IN connection 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)



3TW50754-1C

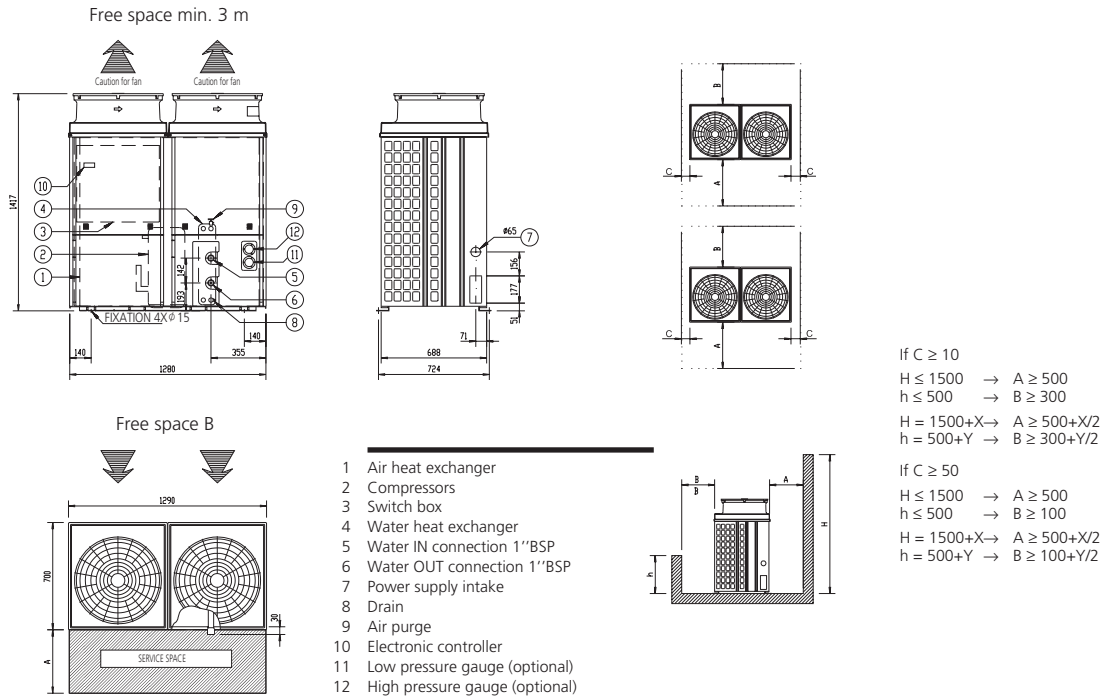
6 Dimensional drawings



1

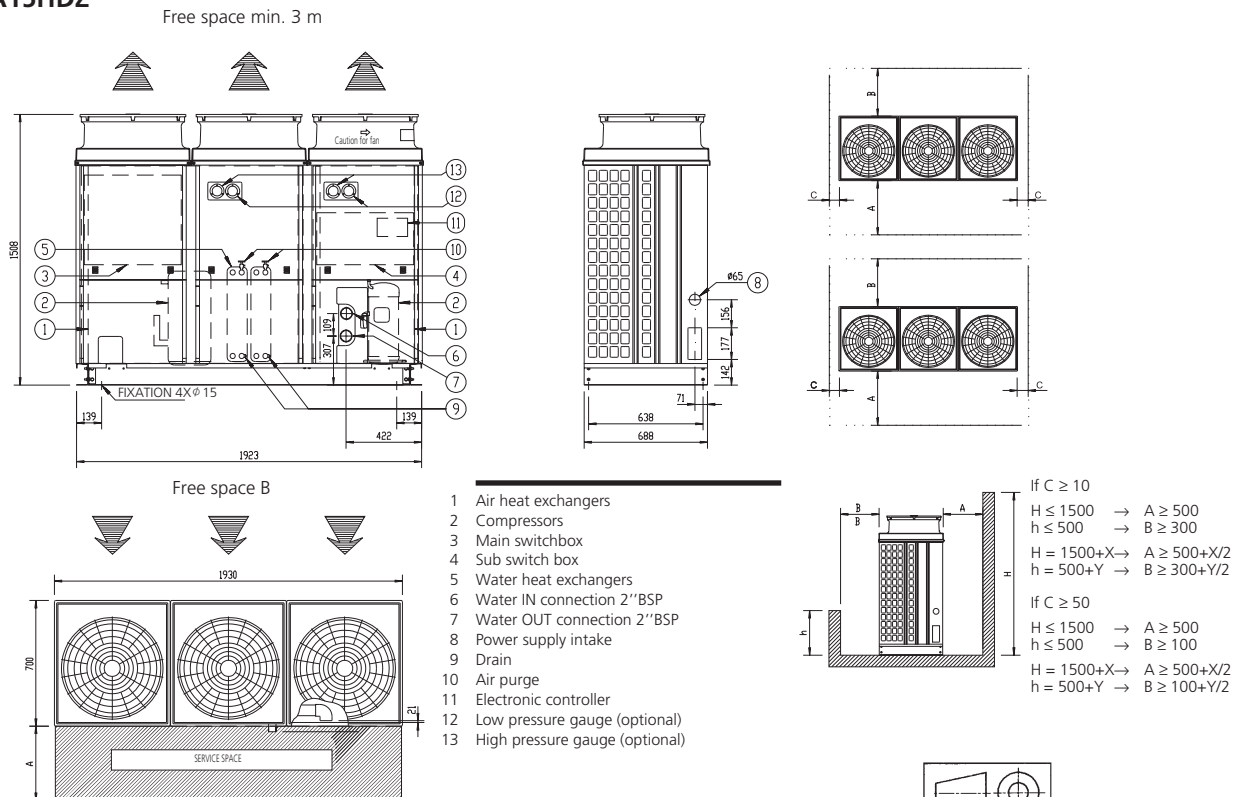
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EUWA10HDZ + EUWA12HDZ



3TW50764-1D

EUWA15HDZ



3TW50774-1B

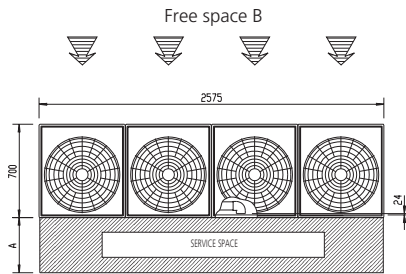
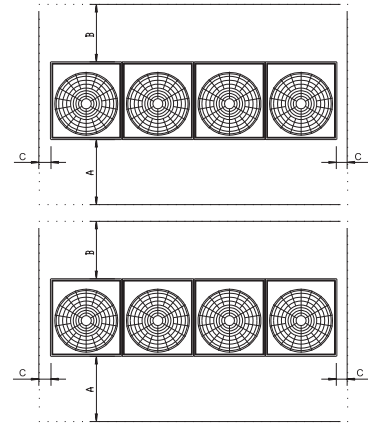
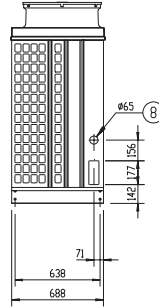
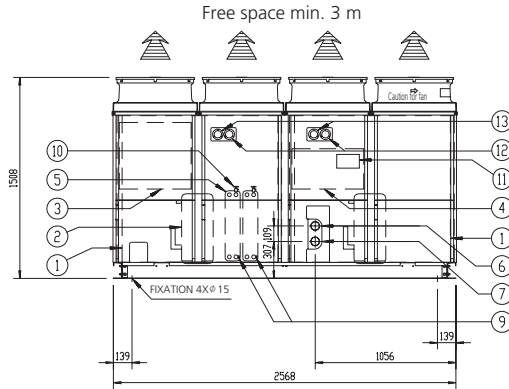
6 Dimensional drawings



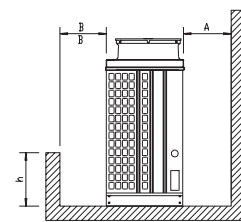
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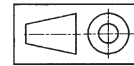
EUWA20HDZ + EUWA25HDZ



- 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)

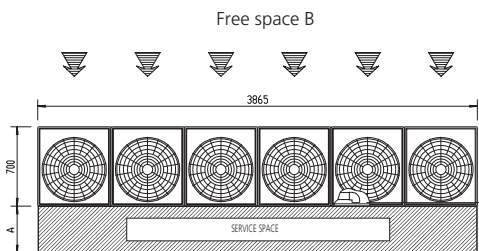
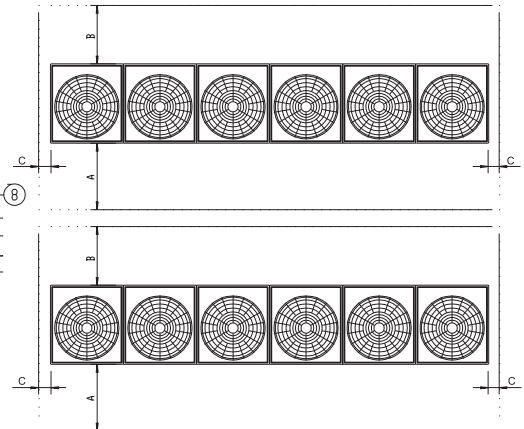
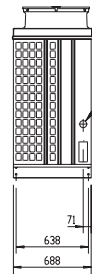
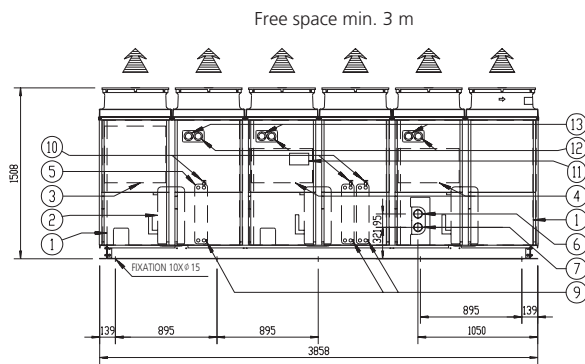


- If $C \geq 10$
- $H \leq 1500 \rightarrow A \geq 500$
- $h \leq 500 \rightarrow B \geq 300$
- $H = 1500+X \rightarrow A \geq 500+X/2$
- $h = 500+Y \rightarrow B \geq 300+Y/2$
- If $C \geq 50$
- $H \leq 1500 \rightarrow A \geq 500$
- $h \leq 500 \rightarrow B \geq 100$
- $H = 1500+X \rightarrow A \geq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

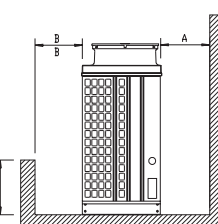


3TW50784-1B

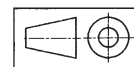
EUWA30HDZ + EUWA35HDZ



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



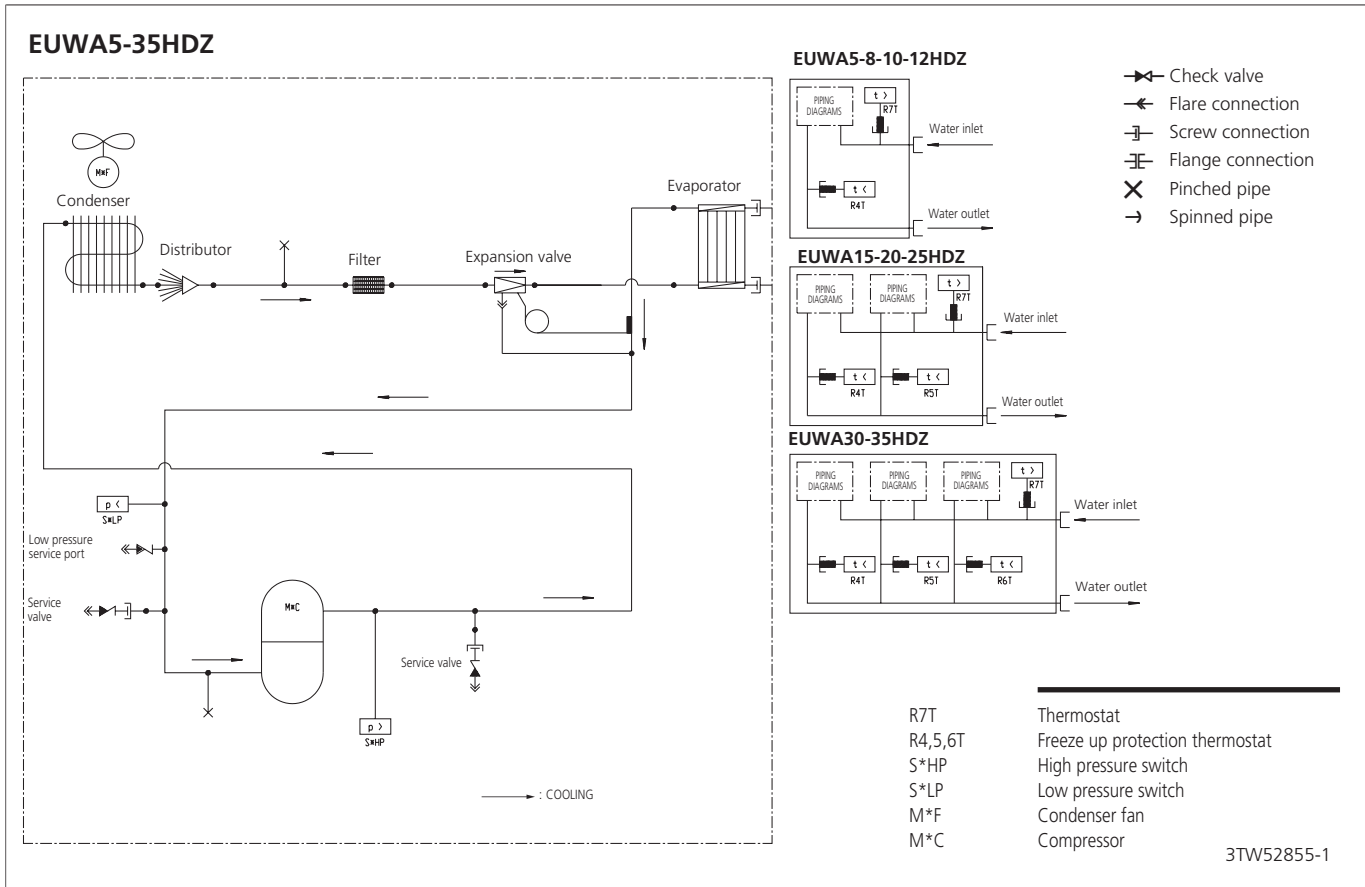
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7 Piping diagrams



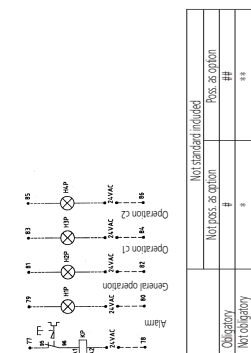
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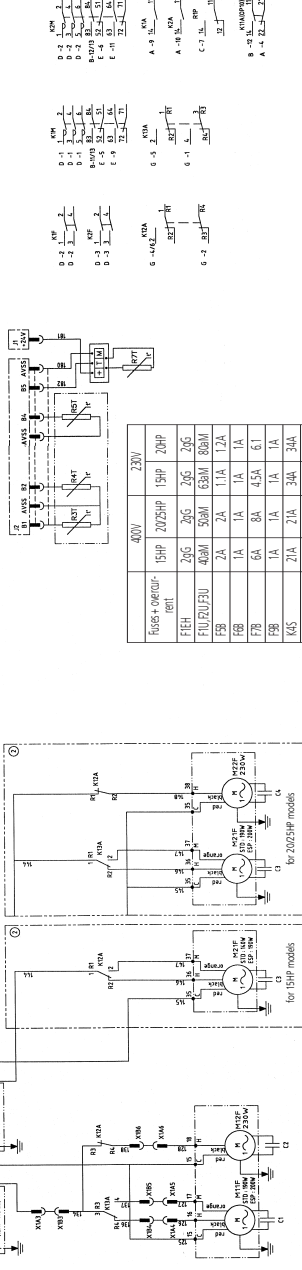
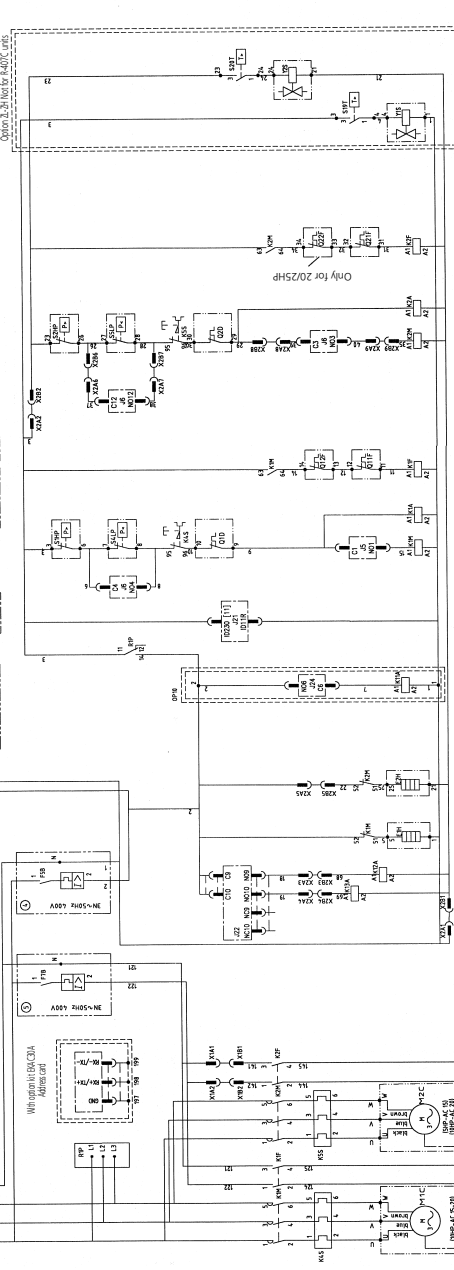
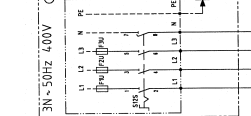
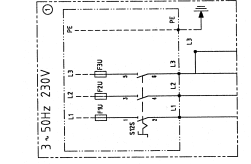
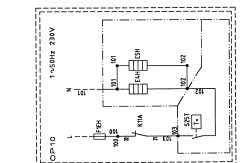
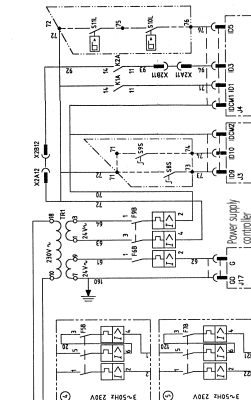
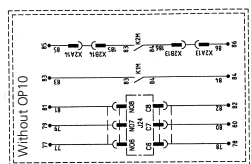
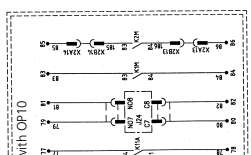
27

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



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

olenoid valve for injection line circuit 1, circuit 2
interconnection connector switchbox 1, switchbox 2

Y1S,Y2S **
K1A,X2A,X1B

Fluxes + overcurrent	400V			230V		
	15hp	20G	2057HP	15hp	20HP	20G
Flux	20G	20G	20G	20G	20G	20G
Flux	403M	503M	533M	533M	803M	803M
Flux	2A	2A	1.1A	1.2A	1.2A	1.2A
Flux	1A	1A	1A	1A	1A	1A
Flux	6A	8A	4.5A	6.1	6.1	6.1
Flux	1A	1A	1A	1A	1A	1A
Flux	21A	21A	34A	34A	34A	34A
Flux	10A	21A	17A	34A	34A	34A

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

NOTES

- (1) ☐ **Terminal 1**
- (2) ☐ **Wire 2 wiring, to be in accordance with the local electrical regulations**
- (3) ☐ **Earth**
- (4) ☐ **Option** ☐ **Wiring dependent on model**
- (5) ☐ **PCG display**
- (6) ☐ **Outside switchbox**
- (7) ☐ **Outside switchbox**

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

(9) **OPTIONAL**

- ☐ **ZH** = Glycol application drilled water temperature down to -5°C (Not for R-407C units)
- ☐ **ZL** = Glycol application chilled water temperature down to -10°C (Not for R-407C units)
- ☐ **OPR 0** = Evaporator heater tape
- ☐ **ESP** = External pump
- ☐ **EMAC 30A** = Address card kit for BMS-connections

Analog inputs	
I2 (B1-AV5S)	Ambient t° measurement
I2 (B2-AV5S)	Evaporator 1 outlet t° measurement
I2 (B3-AV5S)	Evaporator 2 outlet t° measurement
I2 (B4-AV5S)	Evaporator (condensor) inlet water t° measurement
I2 (B5-IK+2.4V)	

6-NO6):
7-NO7):
8-NO8):
13-NO13):
9-NO9-NC9):
10-NO10-NC10):

Digital outputs (relays)

Dual setpoint
Remote start/stop
Reverse phase protector

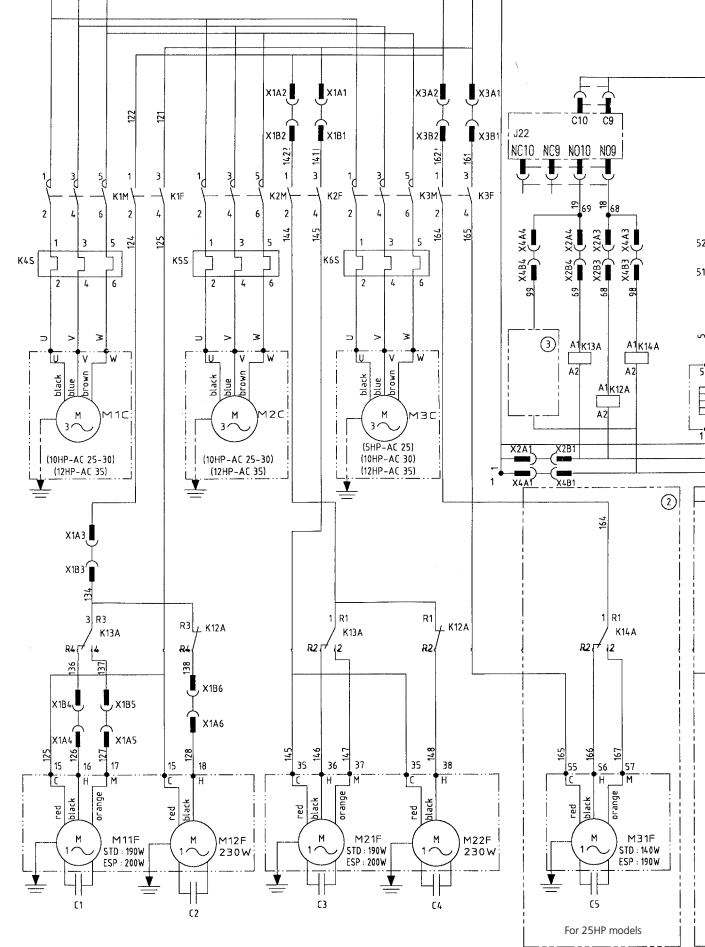
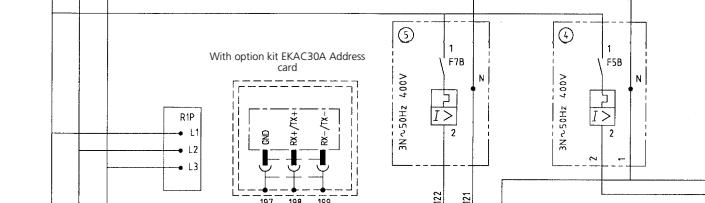
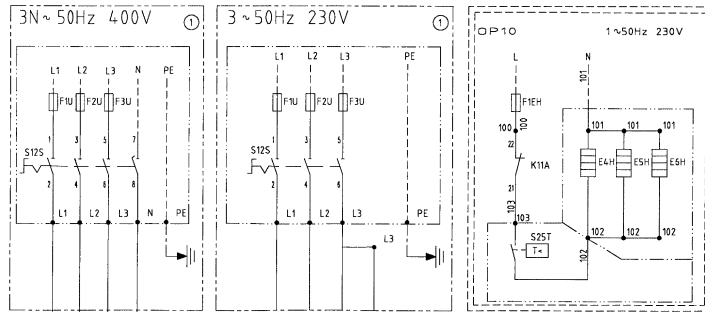
J3 (ID6-IDCM2)
J3 (ID7-IDCM2)
J3 (ID8-IDCM2)
J3 (ID9-IDCM2)
J3 (ID10-IDCM2)
J21 (ID11-ID12)

Digital inputs

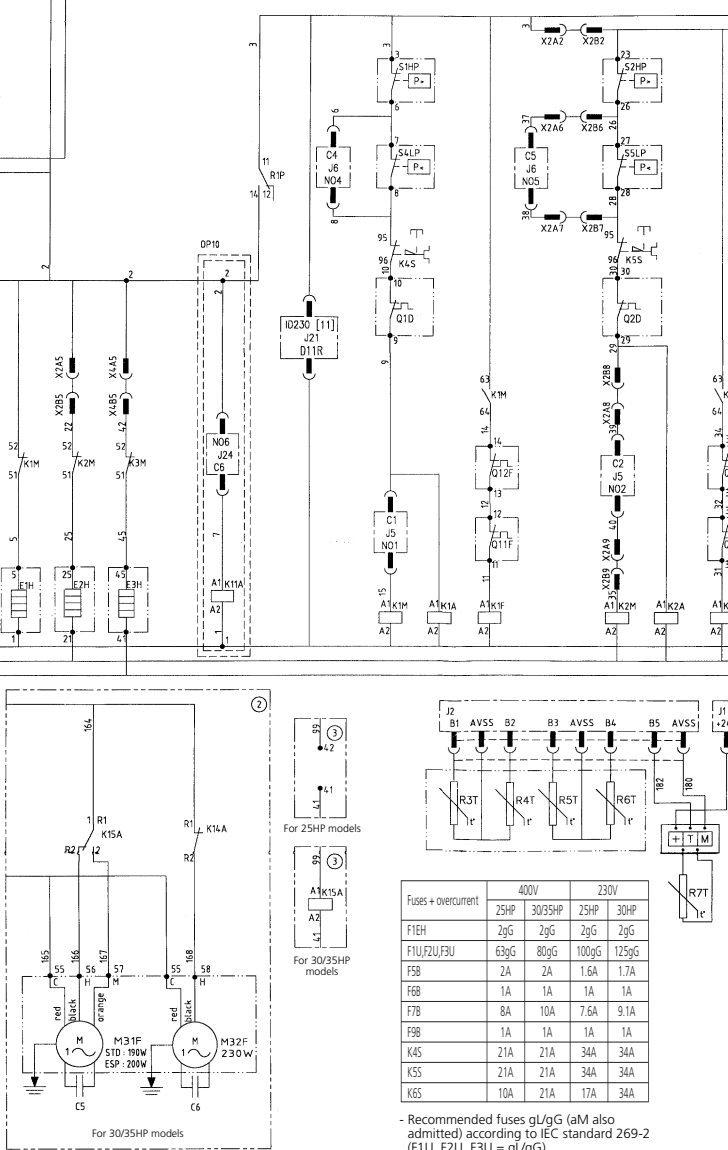
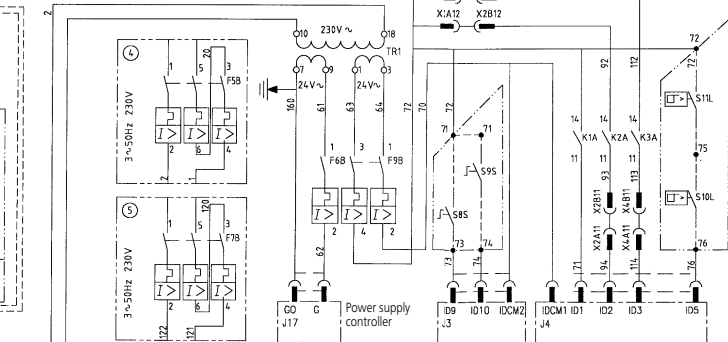
2TW52896-1



EUWA30-35HDZW1



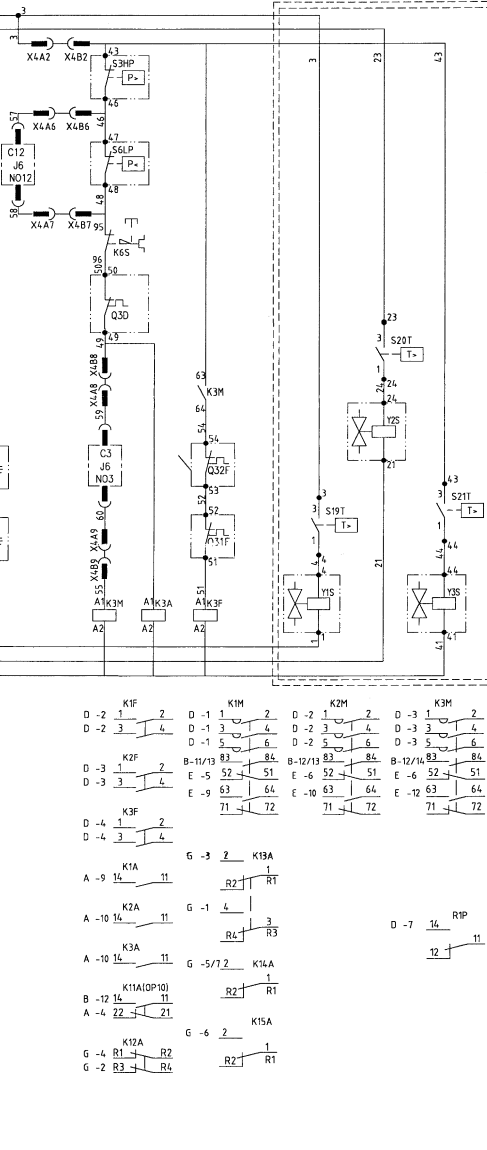
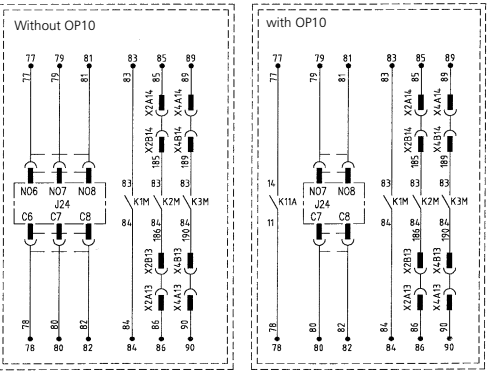
- Digital inputs**
- J4 (ID1-IDCM1): Safety 1 active
 - J4 (ID2-IDCM1): Safety 2 active
 - J4 (ID3-IDCM1): Safety 3 active
 - J4 (ID4-IDCM1): Flow switch
 - J3 (ID6-IDCM2): Dual setpoint
 - J3 (ID7-IDCM2): Remote start/stop
 - J3 (ID8-IDCM2): Remote start/stop
 - J3 (ID9-IDCM2): Reverse phase protector
 - J3 (ID10-IDCM2): Reverse phase protector
 - J21 (ID230 (11)-ID11R): 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-N012): LP bypass 3
 - J24 (C6-N06): Compressor 1 on
 - J24 (C7-N07): Compressor 2 on
 - J24 (C8-N08): Compressor 3 on
 - J24 (C13-N013): LP bypass 1
 - J22 (C9-N09-NC9): LP bypass 2
 - J22 (C10-N010-NC10): LP bypass 3

Fuses + overcurrent	400V	230V
F1EH	250g	250g
F1U1/F2U1/F3U1	630g	800g
F5B	2A	2A
F5B	1A	1A
F5B	8A	10A
F5B	1A	1A
K4S	21A	21A
K4S	21A	21A
K4S	10A	10A

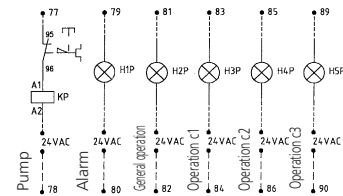
- Recommended fuses gL/gG (aM also admitted) according to IEC standard 269-2 (F1U, F2U, F3U = gL/gG)



- Analog inputs**
- J2 (B1-AV5S): Ambient t° measurement
 - J2 (B2-AV5S): Evaporator 1 outlet t° measurement
 - J2 (B3-AV5S): Evaporator 2 outlet t° measurement
 - J2 (B4-AV5S): Evaporator 3 outlet t° measurement
 - J2 (B5)-JK(+24V): Evaporator (condensor) inlet water t° measurement

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

EXAMPLE



- 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.
- OPTIONAL**
- ESP = Glycol application chilled water temperature down to -10°C Not for R-407C units
 - OP10 = Address card kit for BMS-connections
 - EKAC30A = Glycol application chilled water temperature down to -5°C Not for R-407C units
 - ZL = Evaporator heatertape
 - ZH = Fan motor size up (high esp 5mmH₂O)

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

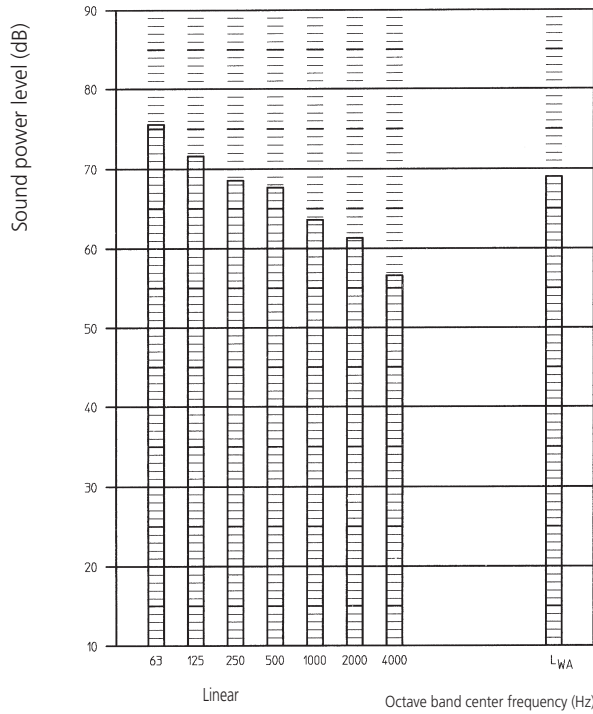
- Interconnection connectors**
- X1 = 12 Pins Connector
 - X2 = 14 Pins Connector
 - X3 = 12 Pins Connector
 - X4 = 14 Pins Connector
- Y1S, Y2S, Y3S ****
- X3A/X4A, X3B/X4B
 - Interconnection connector switchbox 1, switchbox 2
 - Interconnection connector switchbox 1, switchbox 2
 - TR1
 - Thermostat for evaporator heatertape
 - Thermostat for liquid injection 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
 - High pressure switch for 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
 - 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 evaporator heatertape
 - Auxiliary relay for fan speed control
 - Auxiliary relay for fan speed control
 - 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
 - Connector for power supply controller
 - Connector for digital output
 - Connector for digital input
 - Connector for analog input
 - 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 fuses for the secondary of TR1
 - Automatic fuses for the primary of TR1 + control circuit
 - Main fuses for the unit
 - Fuse evaporator heatertape
 - Evaporator heatertape
 - Crankcase heater circuit 1, circuit 2, circuit 3
 - Capacitors for fanmotors

9

Sound power spectrum

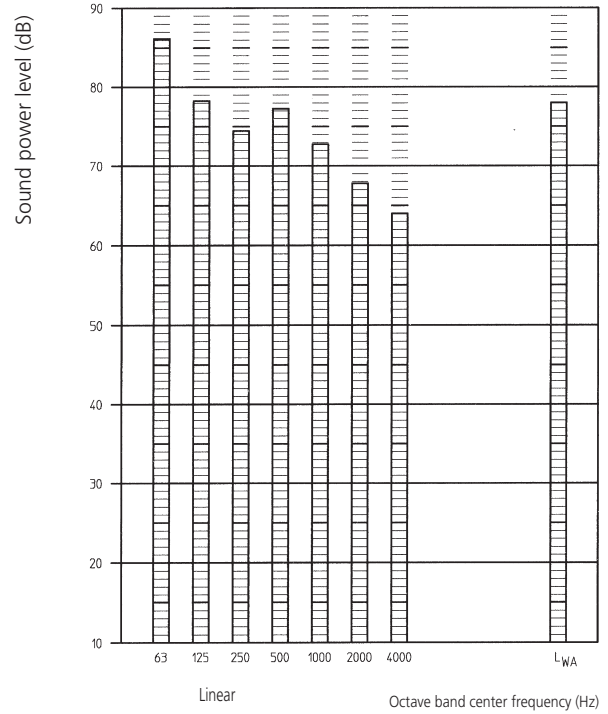


EUWA5HDZ



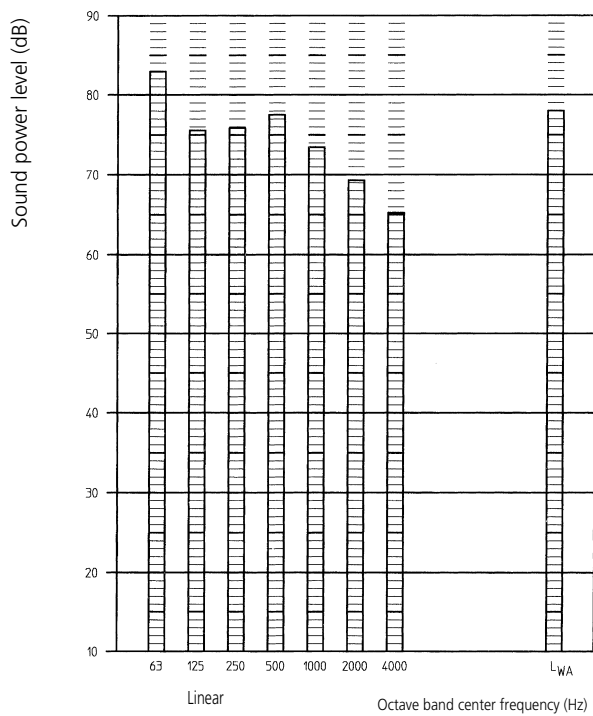
3TW50747-1

EUWA8HDZ



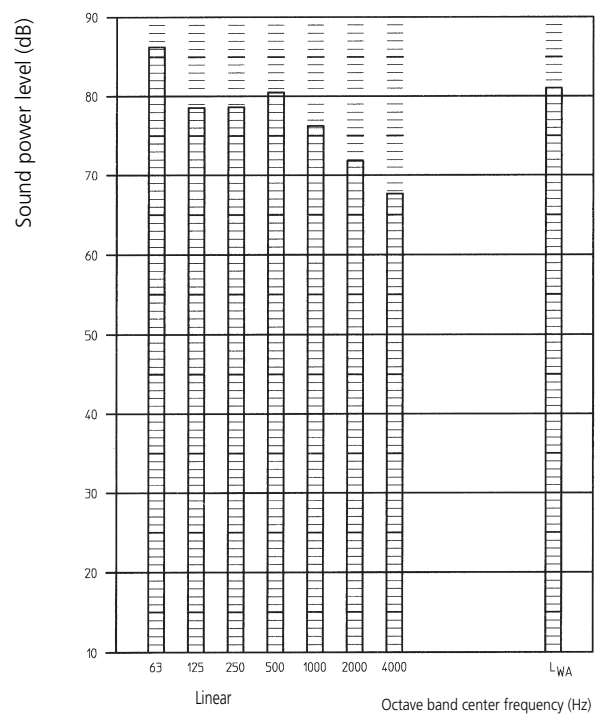
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EUWA10-15HDZ



3TW50767-1

EUWA20-25HDZ

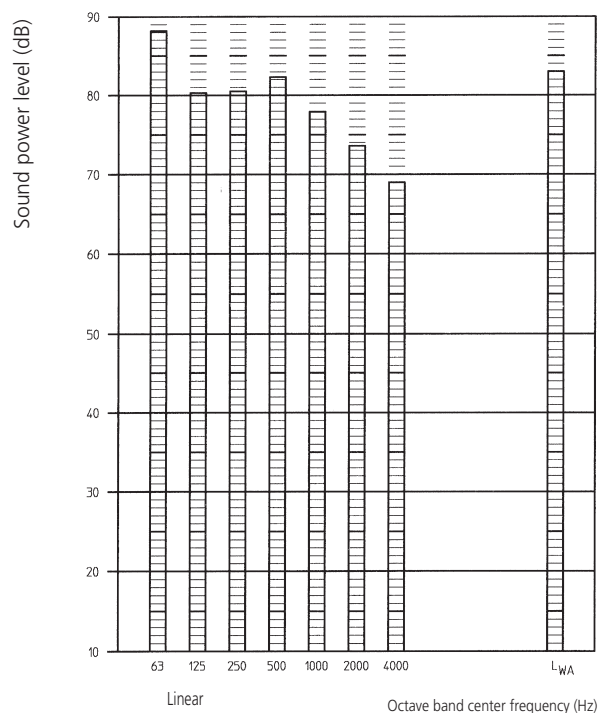


3TW50787-1

9 Sound power spectrum



EUWA30-35HDZ



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



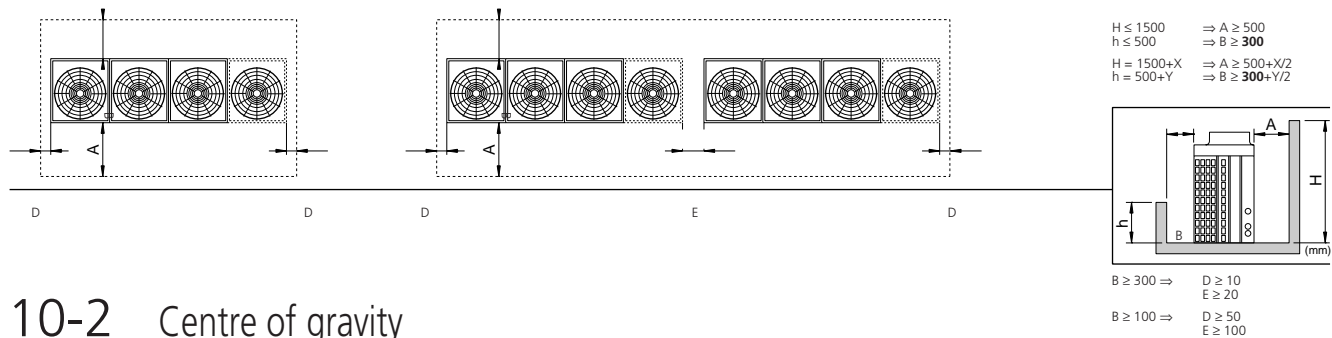
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10

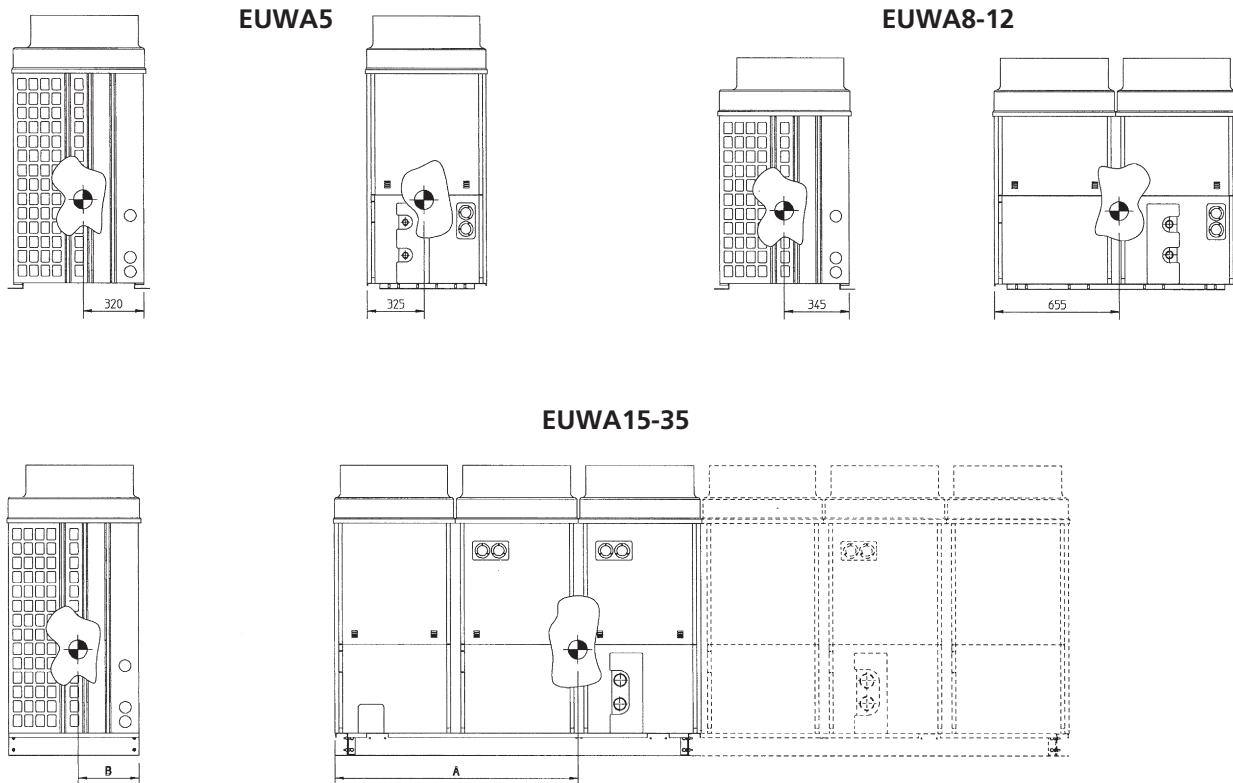
10-1

The EUWA-HDZ 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.



10-2 Centre of gravity



	A	B
EUWA15	900	310
EUWA20-25	1100	340
EUWA30-35	1850	340

3TW50749-2A



10 Installation

10-3 Water charge, flow and quality

1

10

10-2

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
EUWA5HDZ	150/a	18 l/min	60 l/min
EUWA8HDZ	270/a	30 l/min	100 l/min
EUWA10HDZ	300/a	38 l/min	120 l/min
EUWA12HDZ	380/a	48 l/min	150 l/min
EUWA15HDZ	150/a	56 l/min	180 l/min
EUWA20HDZ	150/a	76 l/min	240 l/min
EUWA25HDZ	190/a	96 l/min	300 l/min
EUWA30HDZ	150/a	114 l/min	360 l/min
EUWA35HDZ	190/a	144 l/min	450 l/min

a: steplength (default: 1,5 K for EUWA15-35HDZ, 3 K for EUWA5-12HDZ)

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		Tendency if out of criteria
	Circulating water [<20°C]	Supply water	
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
- Chloride ion (mg Cl ⁻ /l)	Below 50	Below 200	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.

10 Installation

10-4 Operation pressure refrigerant circuit



1

10

10-4

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

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
EUWA5HDZ W1	3N~50Hz	400V	20 aM
EUWA8HDZ W1	3N~50Hz	400V	25 aM
EUWA10HDZ W1	3N~50Hz	400V	32 aM
EUWA12HDZ W1	3N~50Hz	400V	32 aM
EUWA15HDZ W1	3N~50Hz	400V	40 aM
EUWA20HDZ W1	3N~50Hz	400V	50 aM
EUWA25HDZ W1	3N~50Hz	400V	50 aM
EUWA30HDZ W1	3N~50Hz	400V	80 aM
EUWA35HDZ W1	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

1

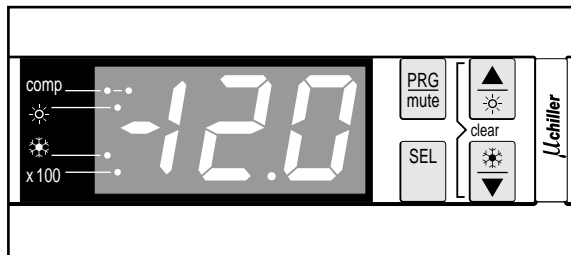
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10-6

User interface EUWA5-12HDZ

The digital controller consists of a numeric display, four labelled keys which you can press and 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.



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. (only EUWY-H models)



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. (only EUWY-H models)



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

10-6 Digital controller



1

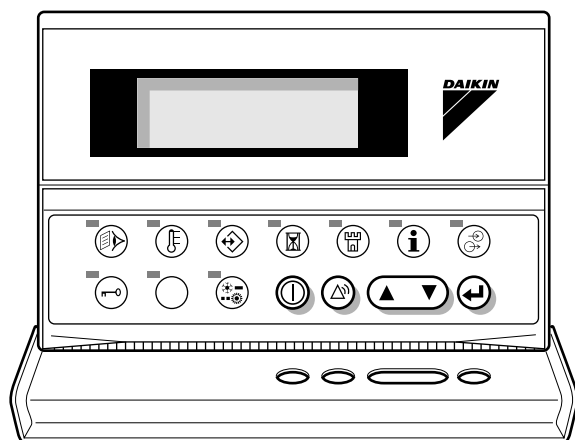
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10-6





User interface EUWA15-35HDZ






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 \uparrow , \div or \downarrow 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. (only EUWY-H models)

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.

10 Installation



10-6 Digital controller

1

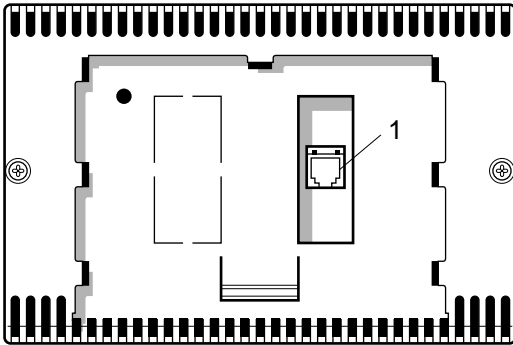
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10-6

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).



11 Accessories & options



1

11

Number	Description	3 digit code	Unit size									Availability
			5	8	10	12	15	20	25	30	35	
	Standard unit	Blank	○	○	○	○	○	○	○	○	○	
	Not completely combinable options	1st digit										
	Display language (GER)	2	—	—	—	—	○	○	○	○	○	Factory mounted
ZH	Glycol application chilled water temperature down to -5°C	12	○	○	○	○	○	○	○	○	○	Factory mounted
ZL	Glycol application chilled water temperature down to -10°C	24	○	○	○	○	○	○	○	○	○	Factory mounted
	Completely combinable options	2nd/3rd digit										
ESP	Fan motor size up (high esp 5mmH ₂ O)	4	○	○	○	○	○	○	○	○	○	Factory mounted
OP10	Evaporator heatertape	16	○	○	○	○	○	○	○	○	○	Factory mounted
	Special standard unit	(*)										
OP10+EKGAW*+(EKHP*)		S										Factory mounted
	Available kits											
EKHP8/10H	Kit for operation range down to -15°C		std	○	○	○	○	std	std	std	std	Kit
EKGAW5/8/10H	Gauges kit 5/8/10Hp-units		○	○	○	○	○	—	—	—	—	Kit
EKGAW15/20H	Gauges kit 15/20Hp-units		—	—	—	—	—	○	○	—	—	Kit
EKGAW25/30H	Gauges kit 25/30Hp-units		—	—	—	—	—	—	—	○	○	Kit
NDJ26K140 (!)	Short duct for EUWAY		○1	—	—	—	—	○1	—	○1	—	Kit
NDJ26K280 (!)	Short duct for EUWAY		—	○1	○1	○1	○1	○2	○2	○3	○3	Kit
KPSJ26K280L	Windscreen left for EUWAY5H		○1	—	○1	○1	○1	○1	○1	○1	○1	Kit
KPSJ26K280R	Windscreen right for EUWAY5H		○1	—	○1	○1	○1	○1	○1	○1	○1	Kit
KPSJ26K160B	Windscreen back EUWAY5H		○1	—	—	—	—	○1	—	○1	—	Kit
KPSJ26K280B	Windscreen back EUWAY10H		—	—	○1	○1	○1	○2	○2	○3	○3	Kit
KPSJ26K140L	Windscreen left EUWAY8H		—	○1	—	—	—	—	—	—	—	Kit
KPSJ26K140R	Windscreen right EUWAY8H		—	○1	—	—	—	—	—	—	—	Kit
KPSJ26K224B	Windscreen back EUWAY8H		—	○1	—	—	—	—	—	—	—	Kit

SYMBOLS

- Available
- x Available and a quantity of x is needed for this unit size
- Not available
- std Standard

NOTES

- (!) Always in combination with esp
- Impossible option combinations:
ZH+ZL
ZH+OP10
ZL+OP10
Windscreen + short duct