DAIKIN

Applied Systems

Technical Data

Condenserless chiller

EEDEN12-411

EWLP-KBW1N

TABLE OF CONTENTS

EWLP-KBW1N

1 Features

- Daikin scroll compressor
- Optimised for use with R-407C
- Electronic DDC controller
- Low operating sound level
- Low energy consumption
- Compact dimensions and low refrigerant volume
- Easy installation and maintenance
- Stainless steel plate heat exchanger
- Compatible with hydraulic module
- Standard integrated: main switch, pressure ports, flow switch, filter, shut-off valves and air purge

2 Specifications

2-1 Technical Specifications					EWLP012KB W1N	EWLP020KB W1N	EWLP026KB W1N	EWLP030KB W1N	EWLP040KB W1N	EWLP055KB W1N	EWLP065KB W1N
Cooling capacity	Nom.			kW	12.1 (1)	20.0 (1)	26.8 (1)	31.2 (1)	40.0 (1)	53.7 (1)	62.4 (1)
Capacity steps number					1				2		
Power input	Cooling	Nom.		kW	4.2 (2)	6.6 (2)	8.5 (2)	10.1 (2)	13.4 (2)	17.8 (2)	20.3 (2)
EER					2.88	3.03	3.15	3.09	2.99	3.02	3.07
Casing	Material				Polyester painted steel plate						
Dimensions	Unit	Height		mm	600						
		Width		mm	600						
		Depth		mm	600				1,200		
Weight	Unit			kg	108	141	147	151	252	265	274
Water heat exchanger - evaporator	Minimum water volume in the system			l	62	103	134	155	205	268	311
	Type				Brazed plate						
	Water flow rate	Min.		l/min	17	29	38	45	57	77	89
		Nom.		l/min	35	57	77	89	115	154	179
		Max.		l/min	69	115	153	179	229	307	358
	Insulation material				Polyethylene foam						
	Model	Quantity			1						
Sound power level	Cooling	Nom.		dBA	64			71	67		74
Compressor	Type				Hermetically sealed scroll compressor						
	Quantity				1				2		
	Model				JT140BF-YE	JT212DA-YE	JT300DA-YE	JT335DA-YE	JT212DA-YE	JT300DA-YE	JT335DA-YE
	Speed			rpm	2,900						
	Crankcase heater			W	33						
	Oil	Charged volume		l	1.5	2.7					
Compressor 2	Crankcase heater			W	-				33		
	Oil	Charged volume		l	-				2.7		
Operation range	Evaporator	Cooling	Min.	ºCDB	-10						
			Max.	ºCDB	20						
	Condenser	Cooling	Min.	ºCDB	25						
			Max.	ºCDB	60						
Refrigerant	Type				R-407C						
	Control				Thermostatic expansion valve						
	Circuits	Quantity			1				2		
Refrigerant circuit	N2 holding charge				Yes						
Refrigerant oil	Type				FVC68D						
Piping connections	Liquid line connection			mm	9.52	12.7			12.7+12.7		
	Liquid line connection (Type)				Flare connection						
	Discharge line connection			mm	12.7	19.1			19.1+19.1		
	Discharge line connection (Type)				Flare connection						
	Evaporator water inlet/outlet (OD)				FBSP 25mm				FBSP 40mm		
	Evaporator water drain				Field installation						

2-2 Electrical Specifications				EWLP012KB W1N	EWLP020KB W1N	EWLP026KB W1N	EWLP030KB W1N	EWLP040KB W1N	EWLP055KB W1N	EWLP065KB W1N
Compressor	Phase			3~						
	Frequency		Hz	50						
	Voltage		V	400						
	Starting current		A	49	79	109	129	79	109	129
	Nominal running current (RLA)		A	7.4	11.5	14.3	16.6	11.5	14.3	16.6
	Maximum running current		A	9	14.5	18.5	22	14	18	20
	Starting method			Direct on line						
Power supply	Name			W1						
	Phase			3N~						
	Frequency		Hz	50						
	Voltage		V	400						
	Voltage range	Min.	%	-10						
		Max.	%	10						

2 Specifications

2-2 Electrical Specifications				EWLP012KBW1N	EWLP020KBW1N	EWLP026KBW1N	EWLP030KBW1N	EWLP040KBW1N	EWLP055KBW1N	EWLP065KBW1N
Unit	Starting current		A	49	79	109	129	93	127	149
	Current	Zmax	Text	0.27 + j0.17	0.22 + j0.13	0.19 + j0.12		0.20 + j0.12	0.18 + j0.12	0.18 + j0.11
	Nominal running current (RLA)	Cooling	A	7.4	11.5	14.3	16.6	23.0	28.7	33.3
	Maximum running current		A	9	14.5	18.5	22	28	36	40
	Recommended fuses according to IEC standard 269-2			3 x 16aM	3 x 20aM	3 x 25aM		3 x 35aM	3 x 40aM	3 x 50aM

Notes

(1) Cooling: entering evaporator water temp. 12ºC; leaving evaporator water temp. 7ºC; condensing temp. bubble 45ºC; liquid temp. 40ºC; standard: Eurovent 6/C/003; condensing temp. bubble corresponds to compressor discharge pressure.

(2) Cooling: entering evaporator water temp. 12ºC; leaving evaporator water temp. 7ºC; condensing temp. 45ºC; liquid temp. 40ºC; standard: Eurovent. This power input includes beside the power to the unit an addition for the required pump power input.

3 Options

3 - 1 Options

EWWP-KBW1N
EWLP-KBW1N

Optional equipment for EWW/LP-KBW1*

EWWP014KBW1N*	EWWP045KBW1N*	EWLP012KBW1N*	EWLP040KBW1N*
EWWP022KBW1N*	EWWP055KBW1N*	EWLP020KBW1N*	EWLP055KBW1N*
EWWP028KBW1N*	EWWP065KBW1N*	EWLP026KBW1N*	EWLP065KBW1N*
EWWP035KBW1N*		EWLP030KBW1N*	

Option number	Option discription	Unit Size							availability
		014WC-012RC	022WC-020RC	028WC-026RC	035WC-030RC	045WC-040RC	055WC-055RC	065WC-065RC	
	Standard unit	●	●	●	●	●	●	●	
	Not completely combinable options								
ZH	Glycol application chilled water temperature down to -5°C	●	●	●	●	●	●	●	Fact. mount.
ZL	Glycol application chilled water temeperature down to -10°C	●	●	●	●	●	●	●	Fact. mount.
	Available kit								
EKAC10C	Address card for connection to BMS or Remote user interface	●	●	●	●	●	●	●	kit
EKRUMCA	Remote installed user interface	●	●	●	●	●	●	●	kit
EKLS1	Low noise operation EWW/LP*(12/14)KBW1*	●1	–	–	–	–	–	–	kit
EKLS2	Low noise operation EWW/LP*(20~65)KBW1*	–	●1	●1	●1	●2	●2	●2	kit
EHMC10AV1010/1080	Hydraulic module	●	●	–	–	–	–	–	kit
EHMC15AV1010/1080	Hydraulic module	–	–	●	●	–	–	–	kit
EHMC30AV1010/1080	Hydraulic module	–	–	–	–	●	●	●	kit

4TW60149-5A

NOTES

1. std = standard on unit
   ● = available
   ●x = available and quantity of x is need for this unit size
   – = not available
   Hatched area = preliminary data
   * = option number
2. To install EKRUMCA => EKAC10C needs to be installed on the unit.
3. EKAC10C: this address card allows direct connection to MODBUS BMS system

4 Capacity tables

4 - 1 Cooling Capacity Tables

Tc [°C]		25		30		35		40		45		50		55		60	
LWE [°C]		CC	PI	CC	PI	CC	PI	CC	PI	CC	PI	CC	PI	CC	PI	CC	PI
-10	012	7,9	2,8	7,4	3,0	6,8	3,3	6,2	3,6	5,5	4,0	4,7	4,3				
	020	12,4	3,7	12,0	4,2	11,3	4,7	10,4	5,3	9,4	5,9	8,2	6,5				
	026	16,4	5,2	16,4	5,9	15,9	6,6	15,1	7,5	13,9	8,5	12,5	9,5				
	030	20,9	6,2	20,7	6,8	20,5	7,5	19,4	8,5	17,8	9,6	15,7	10,8				
	040	24,7	7,7	24,0	8,7	22,5	9,8	20,7	11,0	18,7	12,2	16,4	13,5				
	055	32,9	10,9	32,8	12,3	31,9	13,8	30,2	15,5	27,8	17,4	25,0	19,4				
	065	41,8	12,4	41,5	13,6	40,9	15,2	38,8	17,0	35,6	19,2	31,5	21,7				
-5	012	9,8	2,8	9,2	3,0	8,7	3,3	8,0	3,7	7,4	4,0	6,7	4,4	5,9	4,8		
	020	15,8	3,9	15,2	4,4	14,5	4,9	13,6	5,5	12,5	6,2	11,3	6,9	9,9	7,6		
	026	20,1	5,4	20,0	6,0	19,6	6,8	18,7	7,6	17,7	8,5	16,3	9,6	14,8	10,7		
	030	24,4	6,3	24,3	6,9	24,0	7,7	23,1	8,6	21,6	9,7	19,7	10,9	17,3	12,2		
	040	31,5	8,2	30,3	9,2	28,8	10,3	27,0	11,5	24,9	12,8	22,5	14,2	19,8	15,6		
	055	40,2	11,3	40,2	12,5	39,3	14,0	37,5	15,7	35,6	17,6	32,7	19,7	29,7	21,9		
	065	48,7	12,7	48,6	13,9	48,1	15,5	46,2	17,3	43,3	19,5	39,3	22,0	34,6	24,4		
0	012	11,8	2,8	11,3	3,1	10,7	3,4	10,1	3,7	9,4	4,1	8,6	4,5	7,8	4,9	6,9	5,5
	020	18,7	4,1	18,1	4,6	17,4	5,1	16,5	5,8	15,4	6,4	14,2	7,2	12,8	8,0	11,5	8,8
	026	23,7	5,5	23,7	6,1	23,3	6,8	22,4	7,6	21,5	8,5	20,1	9,5	18,4	10,6	16,2	11,8
	030	28,0	6,3	27,8	6,9	27,6	7,7	26,7	8,7	25,4	9,8	23,6	11,0	21,3	12,2	18,6	13,7
	040	37,2	8,7	36,1	9,6	34,6	10,7	32,9	11,9	30,7	13,3	28,2	14,8	25,6	16,4	23,0	18,0
	055	47,5	11,5	47,4	12,6	46,6	14,0	45,0	15,6	43,1	17,4	40,4	19,5	36,9	21,7	32,6	24,1
	065	55,9	12,6	55,5	14,0	55,1	15,6	53,4	17,4	50,8	19,6	47,1	22,1	42,5	24,5	37,3	27,4
4	012	13,0	2,8	12,7	3,1	12,3	3,4	11,8	3,7	11,2	4,1	10,4	4,5	9,6	5,0	8,7	5,5
	020	20,7	4,2	20,4	4,7	19,9	5,3	19,5	5,9	18,4	6,6	17,2	7,3	15,9	8,1	14,1	8,9
	026	26,7	5,6	26,6	6,1	26,3	6,8	25,5	7,7	24,5	8,6	23,2	9,6	21,4	10,7	19,4	12,0
	030	30,8	6,5	30,7	7,2	30,5	8,0	29,8	8,9	28,6	9,9	27,0	11,1	25,0	12,4	22,7	13,7
	040	43,3	8,5	42,1	9,6	40,6	10,7	38,8	11,9	36,7	13,3	34,2	14,8	31,6	16,4	29,0	18,0
	055	53,5	11,6	53,4	12,8	52,6	14,2	51,1	15,8	49,1	17,6	46,4	19,6	43,0	21,9	39,0	24,5
	065	61,6	13,1	61,4	14,4	60,9	16,1	59,6	17,9	57,2	20,0	54,0	22,3	50,0	24,9	45,4	27,5
7	012	14,2	2,8	13,8	3,1	13,1	3,4	12,8	3,7	**12,1**	**4,2**	11,3	4,6	10,5	5,0	9,7	5,6
	020	22,6	4,3	22,3	4,8	21,9	5,4	21,2	6,0	**20,0**	**6,6**	18,6	7,3	16,8	8,1	14,7	9,1
	026	28,9	5,6	28,9	6,2	28,5	6,9	27,8	7,7	**26,8**	**8,5**	25,5	9,6	23,7	10,8	21,7	12,0
	030	33,1	6,6	33,0	7,3	32,9	8,1	32,3	9,0	**31,2**	**10,1**	29,6	11,2	27,4	12,5	24,8	13,7
	040	46,3	8,9	45,6	9,8	44,2	10,9	42,3	12,1	**40,0**	**13,4**	37,1	14,8	33,5	16,5	29,4	18,4
	055	57,9	11,7	57,8	12,9	57,1	14,3	55,6	15,9	**53,7**	**17,8**	51,0	19,8	47,6	22,0	43,6	24,3
	065	66,2	13,2	66,1	14,6	65,8	16,2	64,6	18,0	**62,4**	**20,3**	59,1	22,5	54,8	25,1	49,6	27,6
10	012	15,4	2,8	15,0	3,1	14,6	3,4	14,1	3,8	13,5	4,2	12,7	4,6	11,8	5,1	10,8	5,5
	020	24,5	4,3	24,3	4,8	23,8	5,4	23,0	6,0	21,9	6,7	20,4	7,4	18,7	8,2	16,7	9,1
	026	30,4	5,6	30,3	6,2	30,0	6,9	29,5	7,7	28,7	8,6	27,5	9,7	25,9	10,8	24,1	12,0
	030	34,5	6,7	34,4	7,4	34,2	8,2	33,6	9,1	32,5	10,1	30,9	11,3	29,0	12,5	26,8	13,8
	040	49,0	8,8	48,5	9,8	47,5	10,9	45,9	12,1	43,7	13,5	40,8	15,0	37,3	16,6	33,4	18,3
	055	60,9	11,7	60,7	12,9	60,2	14,3	59,1	15,9	57,4	17,7	55,1	19,8	51,9	22,0	48,2	24,5
	065	69,0	13,4	68,8	14,8	68,4	16,4	67,1	18,3	64,9	20,4	61,9	22,6	58,0	25,1	53,5	27,7
14	012	16,2	2,8	16,2	3,2	16,2	3,5	15,9	3,8	15,4	4,3	14,6	4,7	13,5	5,2	12,3	5,5
	020	26,4	4,3	26,3	4,8	26,0	5,4	25,4	6,0	24,4	6,7	23,0	7,5	21,2	8,3	19,4	9,0
	026	32,3	5,6	32,2	6,2	32,1	6,9	31,8	7,7	31,2	8,6	30,2	9,6	28,8	10,8	27,2	12,0
	030	38,4	6,7	38,3	7,4	37,9	8,2	37,3	9,2	36,2	10,2	34,8	11,3	33,2	12,5	30,4	13,8
	040	52,6	8,8	52,5	9,8	52,0	10,9	50,7	12,1	48,6	13,6	45,8	15,2	42,4	16,7	38,7	18,2
	055	64,6	11,7	64,5	12,9	64,3	14,3	63,7	16,0	62,4	17,7	60,5	19,8	57,7	22,0	54,4	24,5
	065	76,7	13,5	76,6	14,9	75,9	16,6	74,5	18,4	72,4	20,4	69,7	22,6	66,4	25,1	62,8	27,7
16	012	16,7	2,8	16,7	3,1	16,6	3,5	16,4	3,8	16,0	4,3	15,3	4,7	14,3	5,2	13,2	5,5
	020	27,2	4,3	27,1	4,8	26,9	5,4	26,4	6,0	25,4	6,7	24,2	7,5	22,5	8,3	20,7	9,0
	026	32,6	5,6	32,5	6,2	32,5	7,0	32,2	7,8	31,7	8,7	30,9	9,7	29,7	10,8	28,3	12,0
	030	38,8	6,7	38,7	7,5	38,4	8,3	37,9	9,2	37,0	10,2	35,8	11,3	34,1	12,5	32,3	13,9
	040	54,3	8,8	54,1	9,8	53,7	10,9	52,7	12,1	50,8	13,6	48,2	15,1	44,9	16,7	41,2	18,2
	055	65,3	11,7	65,2	12,9	65,0	14,4	64,5	16,0	63,5	17,8	61,8	19,8	59,5	22,1	56,7	24,5
	065	77,6	13,6	77,4	15,0	76,9	16,7	75,9	18,6	74,0	20,5	71,5	22,7	68,3	25,2	64,7	27,8
20	012	17,6	2,8	17,6	3,1	17,5	3,5	17,5	3,8	17,2	4,3	16,7	4,7	15,9	5,1	14,9	5,5
	020	28,8	4,3	28,8	4,8	28,7	5,3	28,3	5,9	27,6	6,7	26,5	7,4	25,0	8,2	23,2	9,0
	026	33,2	5,6	33,2	6,3	33,1	7,0	33,1	7,8	32,8	8,8	32,2	9,8	31,5	10,9	30,6	12,0
	030	40,9	6,7	40,8	7,5	40,8	8,3	40,6	9,3	40,5	10,2	40,2	11,3	38,7	12,5	36,8	13,9
	040	57,6	8,7	57,5	9,7	57,2	10,8	56,5	12,1	55,2	13,5	53,0	15,0	50,0	16,6	46,3	18,2
	055	66,6	11,7	66,5	13,0	66,4	14,5	66,3	16,1	65,6	18,0	64,5	20,0	63,0	22,2	61,3	24,4
	065	84,5	13,5	84,4	15,0	84,2	16,7	83,8	18,6	82,6	20,5	80,4	22,7	77,3	25,2	73,7	28,0

4TW57292-1A

NOTES

1 **CC**
According to Eurovent rating standard 6/C/003-2003 and valid for chilled water range Dt=3-8°C.

2 **PI**
According to Eurovent rating standard 6/C/003-2003 (compressor + control circuit).

SYMBOLS

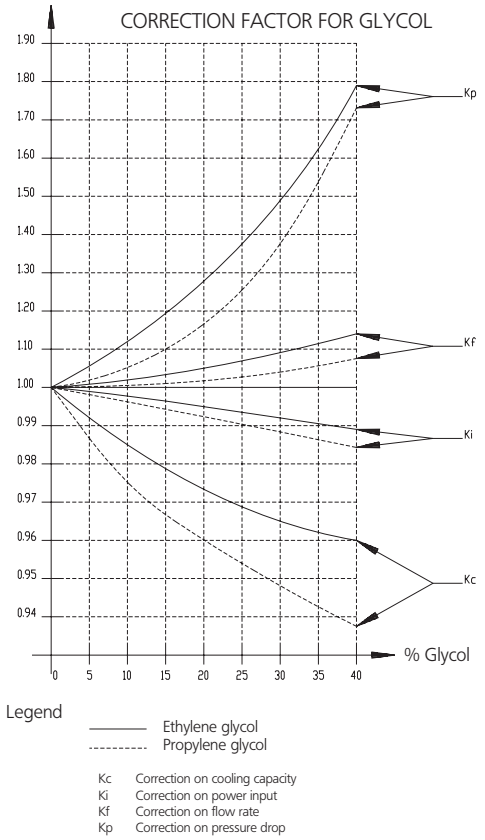
CC : Cooling capacity (kW)
PI : Power input (kW)
TC : Condensing temperature bubble (°C)
LWE : Leaving water evaporator (°C)

4 Capacity tables

4 - 2 Capacity Correction Factor

Required glycol concentration

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



Legend

Ethylene glycol
Propylene glycol

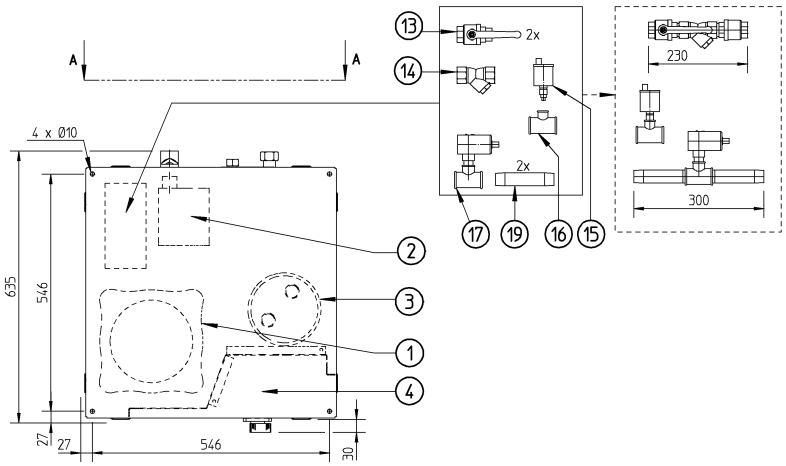
Kc Correction on cooling capacity
Ki Correction on power input
Kf Correction on flow rate
Kp Correction on pressure drop

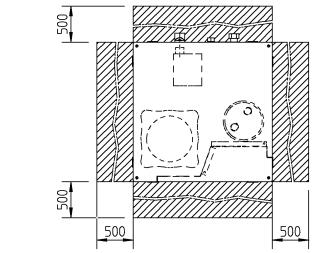
4TW54179-1

5 Dimensional drawings

5 - 1 Dimensional Drawings

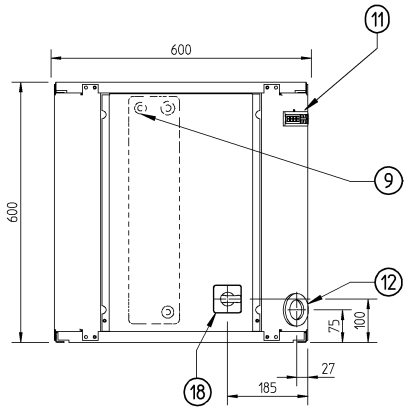
EWLP012-030KBW1N



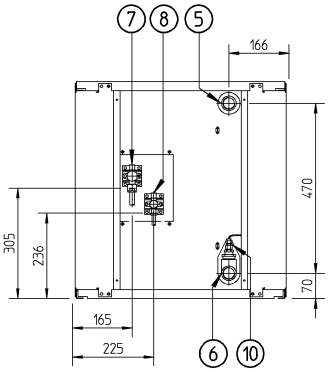


Required service space around the unit

Scale: 1/18

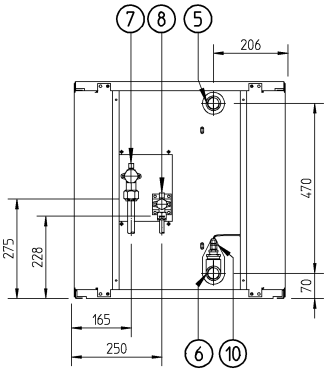


View A-A Only for 5HP



Scale: 1/12

View A-A Only for 8-10-12HP



Scale: 1/12

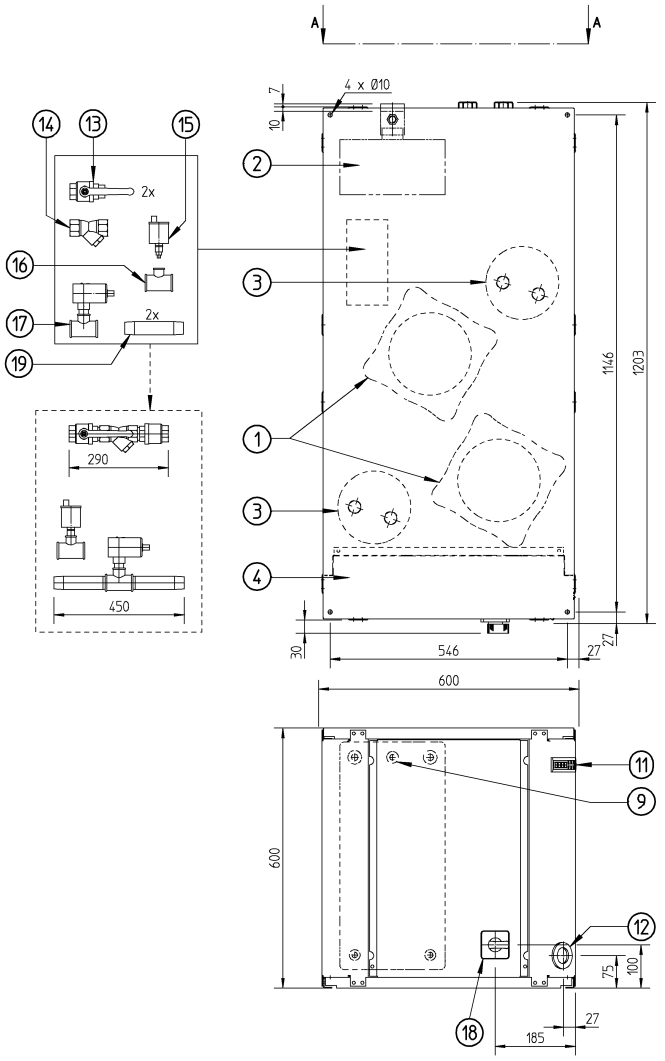
1	Compressor
2	Evaporator
3	Accumulator
4	Switchbox
5	Chilled water in
6	Chilled water out
7	Discharge stop valve
8	Liquid stop valve
9	Evaporator entering water temperature sensor
10	Freeze up sensor
11	Digital display controller
12	Power supply intake (ϕ 48)
13	Ballvalve
14	Water filter
15	Air purge
16	T-joint for air purge
17	Flow switch
18	Main switch
19	Flow switch pipe

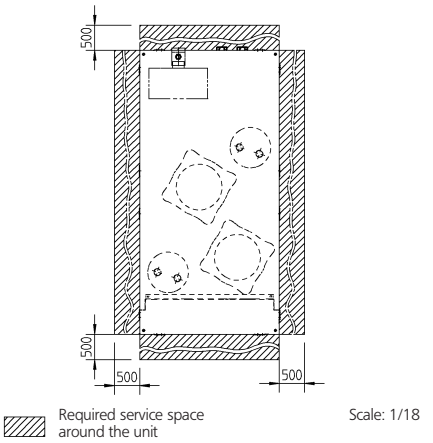
3TW55254-2B

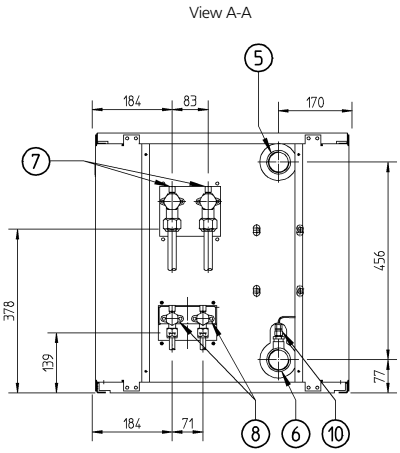
5 Dimensional drawings

5 - 1 Dimensional Drawings

EWLP040-065KBW1N







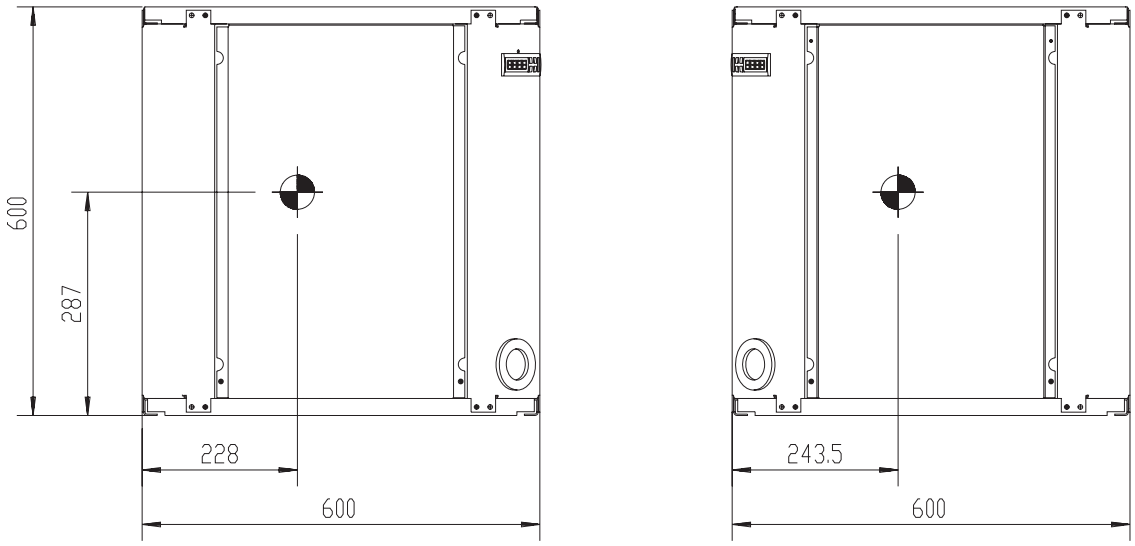
1	Compressor	11	Digital display controller
2	Evaporator	12	Power supply intake (∅ 48)
3	Accumulator	13	Ballvalve
4	Switchbox	14	Water filter
5	Chilled water in	15	Air purge
6	Chilled water out	16	T-joint for air purge
7	Discharge stop valve	17	Flow switch
8	Liquid stop valve	18	Main switch
9	Evaporator entering water temperature sensor	19	Flow switch pipe
10	Freeze up sensor		

3TW55304-2B

6 Centre of gravity

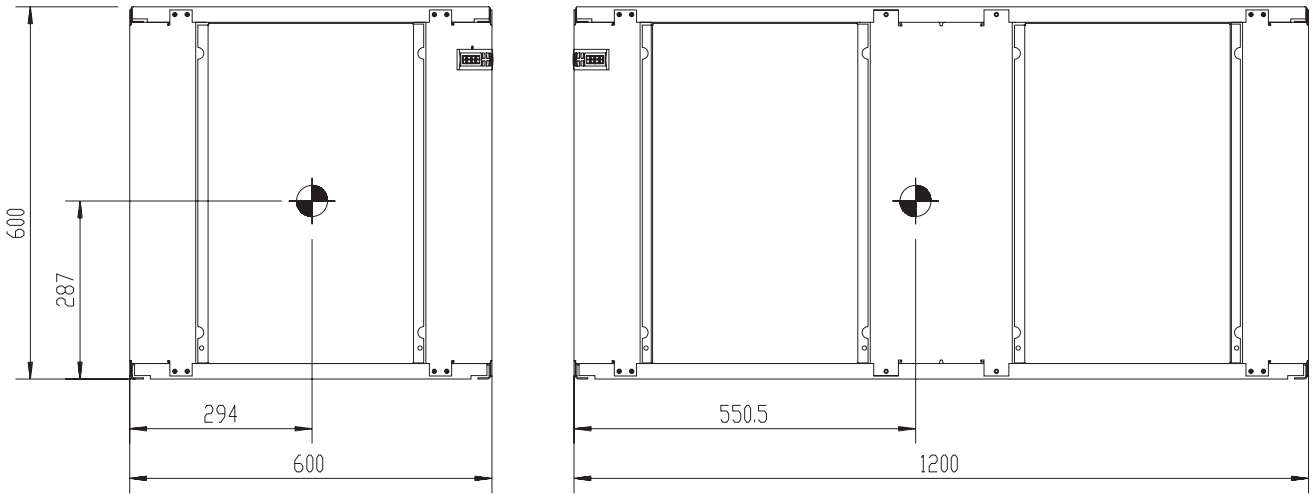
6 - 1 Centre of Gravity

EWLP012-030KBW1N



4TW54629-2

EWLP040-065KBW1N

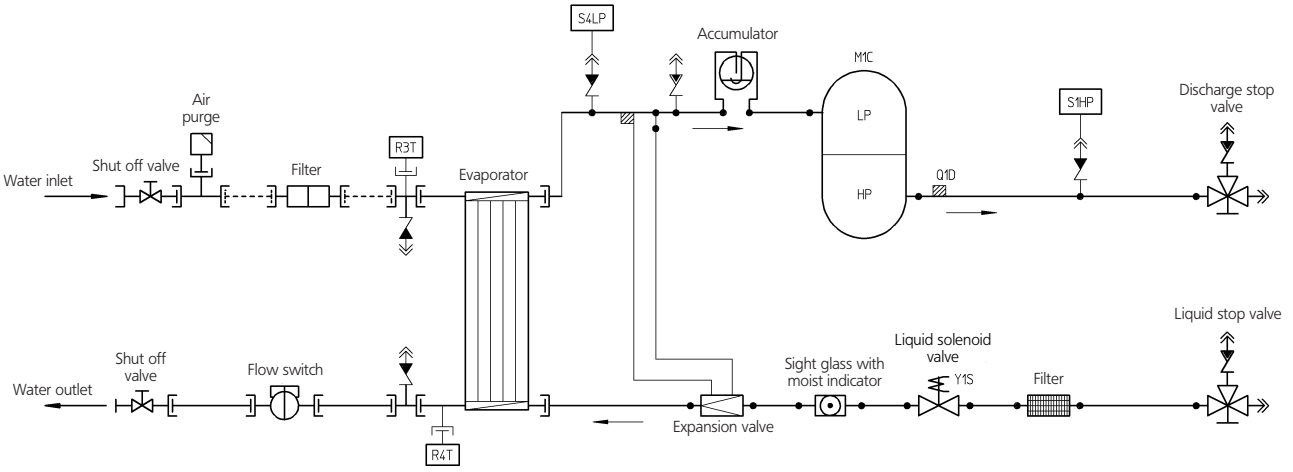


4TW54629-3

7 Piping diagrams

7 - 1 Piping Diagrams

EWLP012-030KBW1N



Y1S	Liquid solenoid valve
M1C	Compressor motor 1
R4T	Freeze-up protection
S1HP	High pressure switch
S4LP	Low pressure switch
R3T	Inlet water evap. temp. sensor
Q1D	Discharge temperature controller

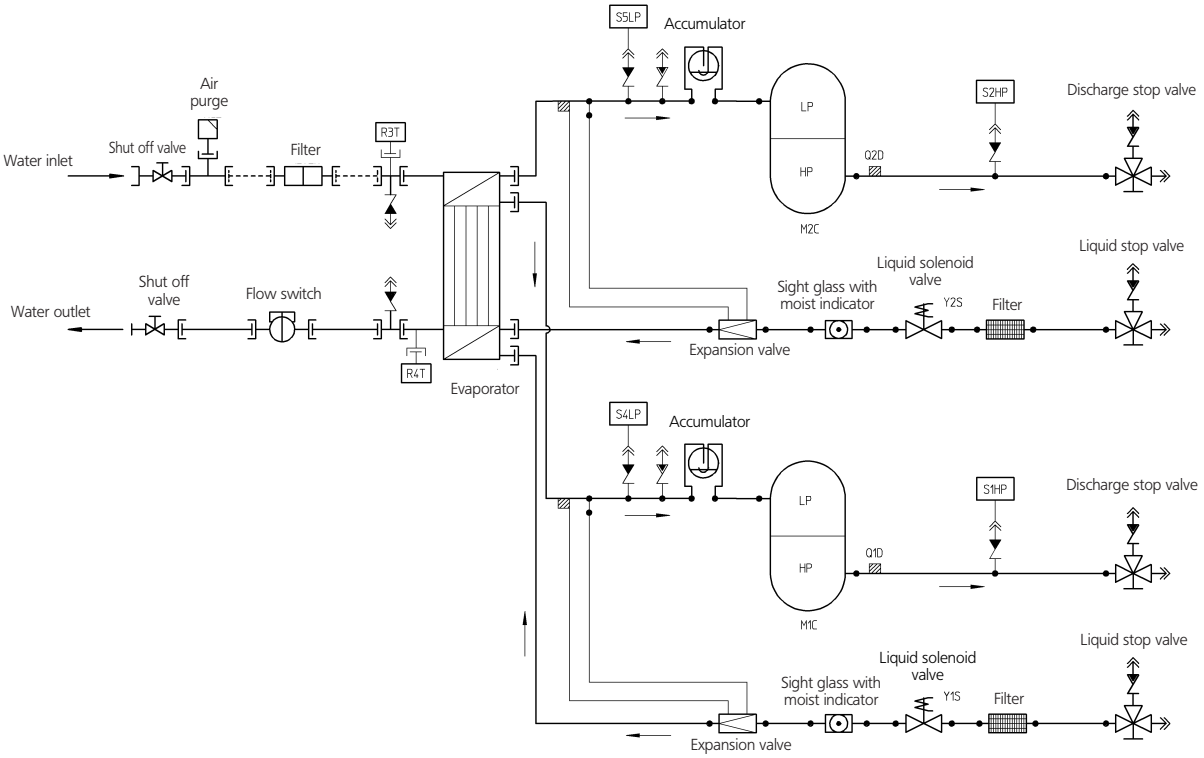
- ------ Field piping
- Check valve
- Flare connection
- Screw connection
- Flange connection
- Pinched pipe
- Spinned pipe

3TW55255-2B

7 Piping diagrams

7 - 1 Piping Diagrams

EWLP040-065KBW1N



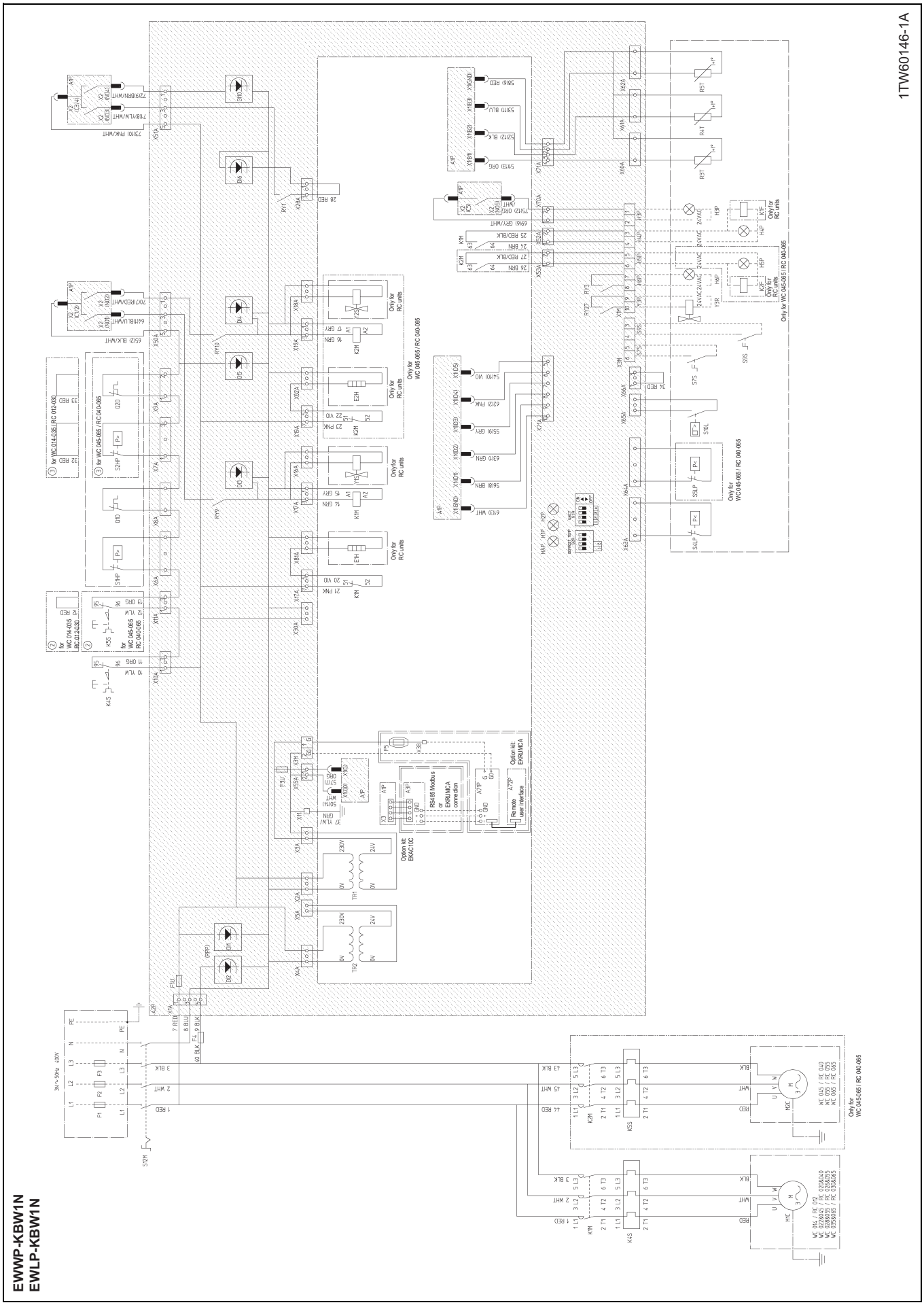
Y1S	Liquid solenoid valve
Y2S	Liquid solenoid valve
M1C	Compressor motor
M2C	Compressor motor
R4T	Freeze-up protection
R5T	Inlet water cond. temp. sensor
S1HP	High pressure switch
S2HP	High pressure switch
S4LP	Low pressure switch
S5LP	Low pressure switch
R3T	Inlet water evap. temp. sensor
Q1D	Discharge temperature controller
Q2D	Discharge temperature controller

- ------ Field piping
- Check valve
- Flare connection
- Screw connection
- Flange connection
- Pinched pipe
- Spinned pipe

3TW55305-2B

8 Wiring diagrams

8 - 1 Wiring Diagrams - Three Phase



8 Wiring diagrams

8 - 1 Wiring Diagrams - Three Phase

EWWP-KBW1N
EWLP-KBW1N

Y3R*	Reverse valve of water circuit	R3T	Condensor inlet water temperature sensor	F3U	Fuse controller PCB
Y1S, Y2S	Liquid solenoid valve circuit 1, circuit 2	Q1D, Q2D	Discharge thermal protector circuit 1, circuit 2	F1U	Fuse I/0 PCB
X1-82(A/B/M)	Connectors	PE	Main earth terminal	F6 #	Fuse for pumpcontactor
TR2	transfo 230V -> 24V for supply of I/O PCB	M1C, M2C	Compressor mortor circuit 1, circuit 2	F5 ##	Surge proof fuse
TR1	transfo 230V -> 24V for supply of controller PCB	K1P*	Pump contractor	F4	Fuse I/0 PCB
S12M	Main isolator switch	K1F, K2F #	Fan contactor	F1, F2, F3 #	Main fuses for the unit
S10L	Flowswitch	K6S*	Overcurrent relay pump	E1H, E2H	Crankcase heater circuit 1, circuit 2
S9S*	Switch for remote start/stop or dual setpoint	K4S, K5S	Overcurrent relay circuit 1, circuit 2	A72P**	PCB: power supply card
S7S*	Switch for remote cooling/heating selection or dual setpoint	K1M, K2M	Compressor contactor circuit 1, circuit 2	A71P**	PCB: remote user interface
S4LP, S5LP	Low pressure switch circuit 1, circuit 2	H6P*	Indication lamp general operation	A3P**	PCB: address card
S1HP, S2HP	High pressure switch circuit 1, circuit 2	H5P*	Indication lamp operation compressor 2	A2P	PCB: I/0 PCB
R5T	Condensor inlet water temperature sensor	H4P*	Indication lamp operation compressor 1	A1P	PCB: controller PCB
R4T	Evaporator outlet water temperature sensor	H3P*	Indication lamp alarm		

A2P	**A1P**
DIGITAL INPUTS DI1 Reverse phase detection (L1-N) DI2 Reverse phase detection (N-L3) DI3 M1C ON detection DI4 M2C ON detection DI5 Safety device detection DI6 Pump ON detection DI7 -- DI8 -- DI9 -- DI10 Reverse valve request	DIGITAL INPUTS X1 (ID1-GND) : Flow switch X1 (ID2-GND) : Remote C/H selection X1 (ID3-GND) : High pressure switch + discharge protector + overcurrent X1 (ID4-GND) : Low pressure switch X1 (ID5-GND) : remote On/Off
	DIGITAL OUTPUTS (RELAYS) X2 (C1/2-NO1): Compressor M1C on X2 (C1/2-NO2): Compressor M2C on X2 (C3/4-NO3): voltage free contact for pump X2 (C3/4-NO4): Reversing valve X2 (C5-NO5): alarm voltage free contact
DIGITAL OUTPUTS (RELAYS) RY1 Reversed phase protector RY3 Pump/general operation RY9 M1C off (during defrost) RY10 M2C off (during defrost) RY27 Reversing valve of water circuit	ANALOG INPUTS X1 (B1-GND): evap inlet water t° X1 (B2-GND): evap outlet water t° X1 (B3-GND): cond inlet water t°
OTHERS HAP light emitting diode (service monitor green) H1P, H2P light emitting diode (service monitor red) S1A dipswitch (unit setting) S2A dipswitch (defr. & fan setting)	ANALOG OUTPUTS X1 (Y-GND):

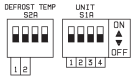
Fuses + overcurrent	All models (400V)						
	WC014 RC012	WC 022 RC020	WC028 RC026	WC035 RC030	WC045 RC040	WC055 RC055	WC065 RC065
F1, F2, F3 (+ gL/gG)	3x16A	3x20A	3x25A	3x32A	3x40A	3x50A	3x50A
F4	8A	8A	8A	8A	8A	8A	8A
F5	250mAT	250mAT	250mAT	250mAT	250mAT	250mAT	250mAT
F1U	5A	5A	5A	5A	5A	5A	5A
F3U	315mAT	315mAT	315mAT	315mAT	315mAT	315mAT	315mAT
K4S	9A	14.5A	18.5A	22A	14A	18A	20A
K5S	--	--	--	--	14A	18A	20A

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

1TW60146-1A

NOTES

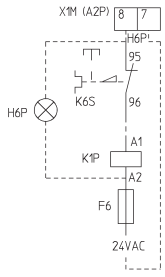
1. 1 •: Terminal 1, 2 ——: Wire 2; - - - - -: Field wiring to be in accordance with the local electrical regulations, —·—·—: Earth wiring
   : Option, : PCB : Outside switchbox
2. If compressor rotates reversely, it may be damaged
3. WC: Watercooled chiller
   RC: Unit with remote condenser
4. Optional:
   - EKAC10C = address card kit for Modbus or remote user interface connection
   - EKSS = softstart
   - EKRUMCA = remote user interface
5. Terminals for fieldwiring:
   X1M: H3-6P, Y3R, K1-2F: Output terminal for fieldwiring (voltage free contact max 2A/Output)
   X3M: Input terminal for fieldwiring (don't connect voltage) (switch load 6mA/30VDC)
6. Y3R is activated in cooling mode
   S7S open = heating
   S7S closed = cooling
7. Dipswitch setting
   S2A dipswitch: defrost & fan setting
   no meaning for WC CO & WC CL CO



S1A dipswitch: Unit setting

1> off = 1 circuit
on = 2 circuit
234 > Off Off Off = WC CO & WC CL CO
Off On Off = AC CO
On Off Off = AC HP (without compr stop for defrost cycle)
On Off On = AC HP (with compr stop for defrost cycle)

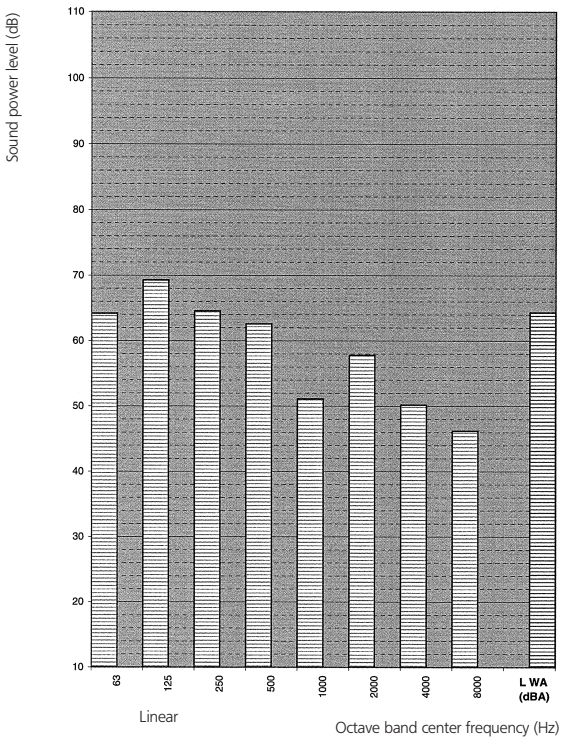
8. Pump contact



9 Sound data

9 - 1 Sound Power Spectrum

EWLP012-026KBW1N

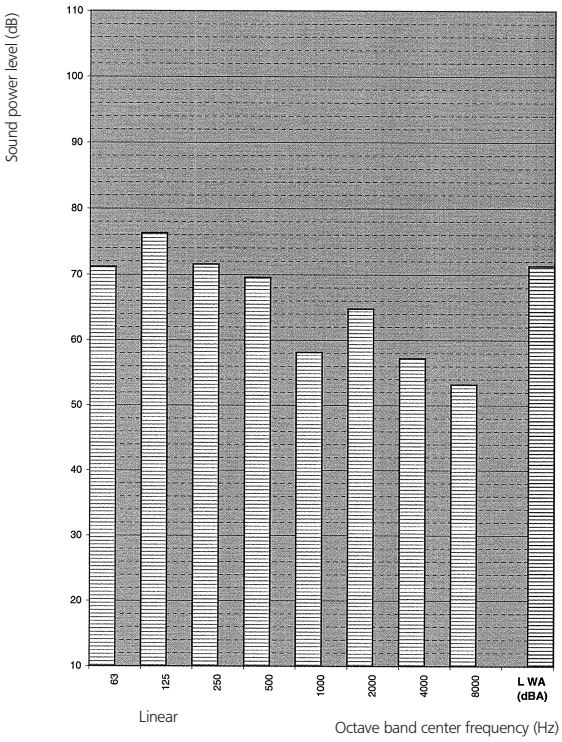


4TW57197-1

NOTES

Option low noise = -3dBa

EWLP030KBW1N

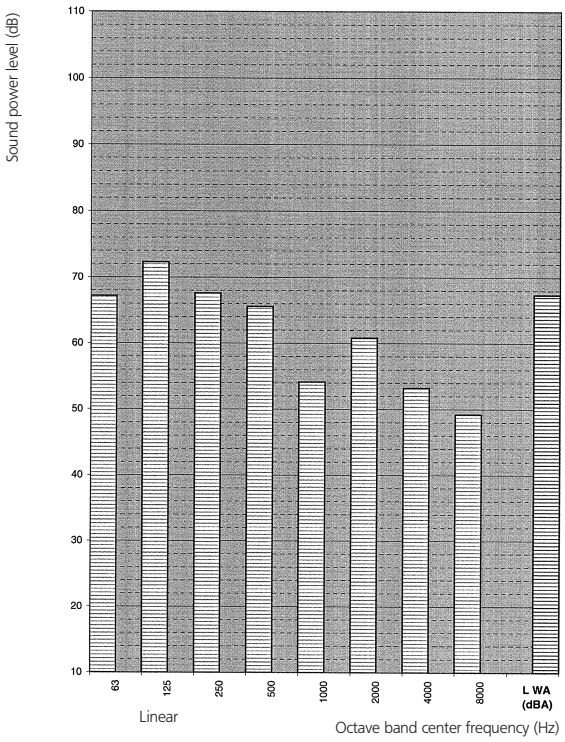


4TW57197-2

NOTES

Option low noise = -3dBa

EWLP040-055KBW1N

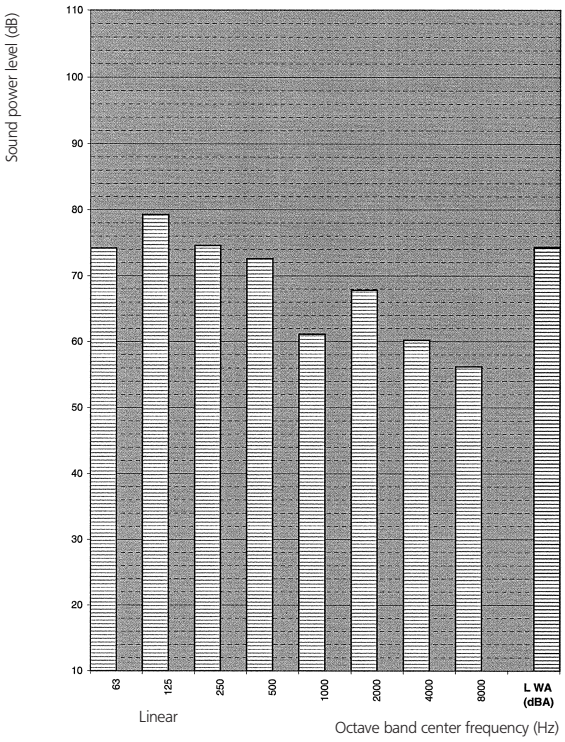


4TW57197-3

NOTES

Option low noise = -3dBa

EWLP065KBW1N



4TW57197-4

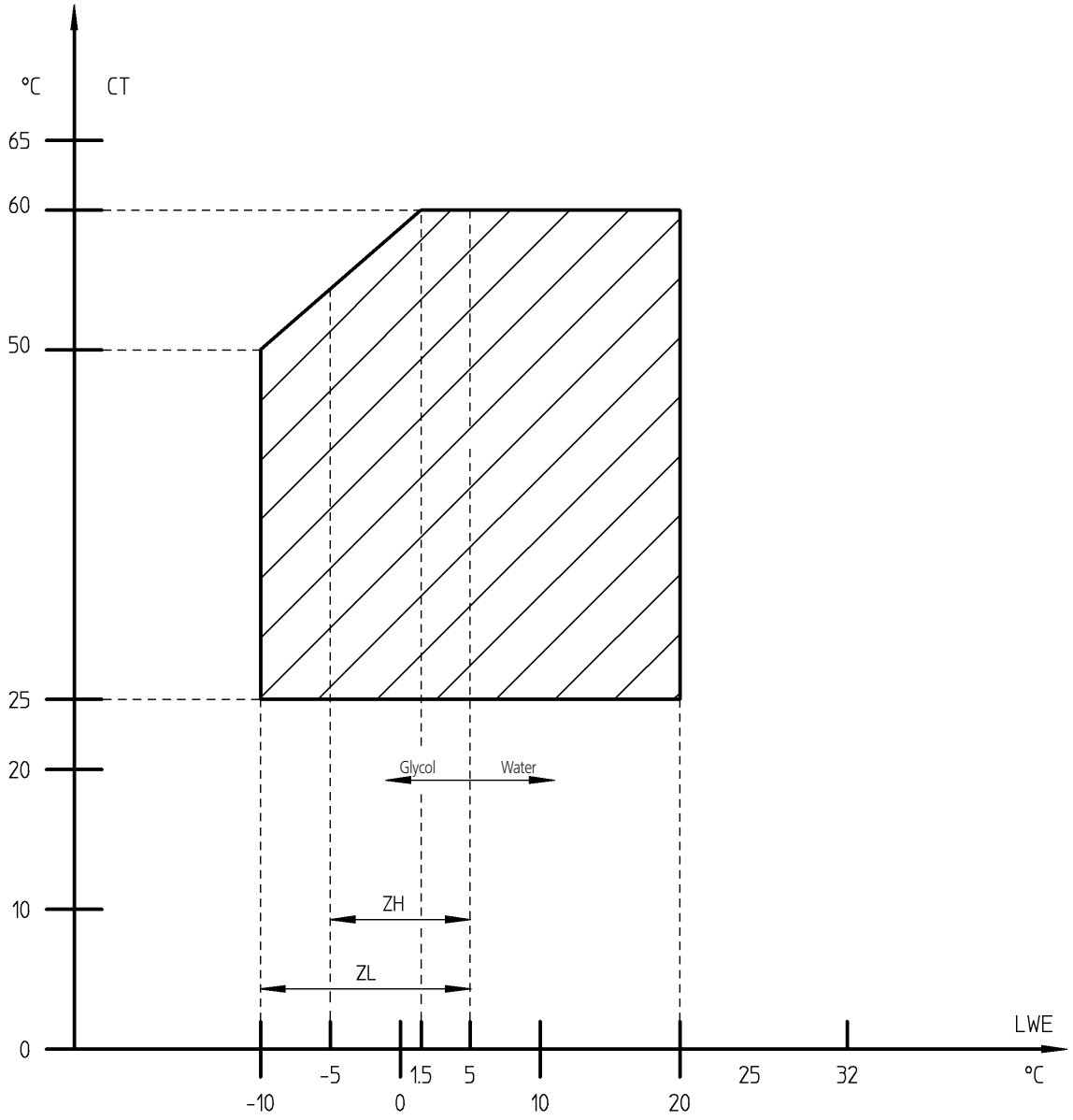
NOTES

Option low noise = -3dBa

10 Operation range

10 - 1 Operation Range

EWLP012-030KBW1N



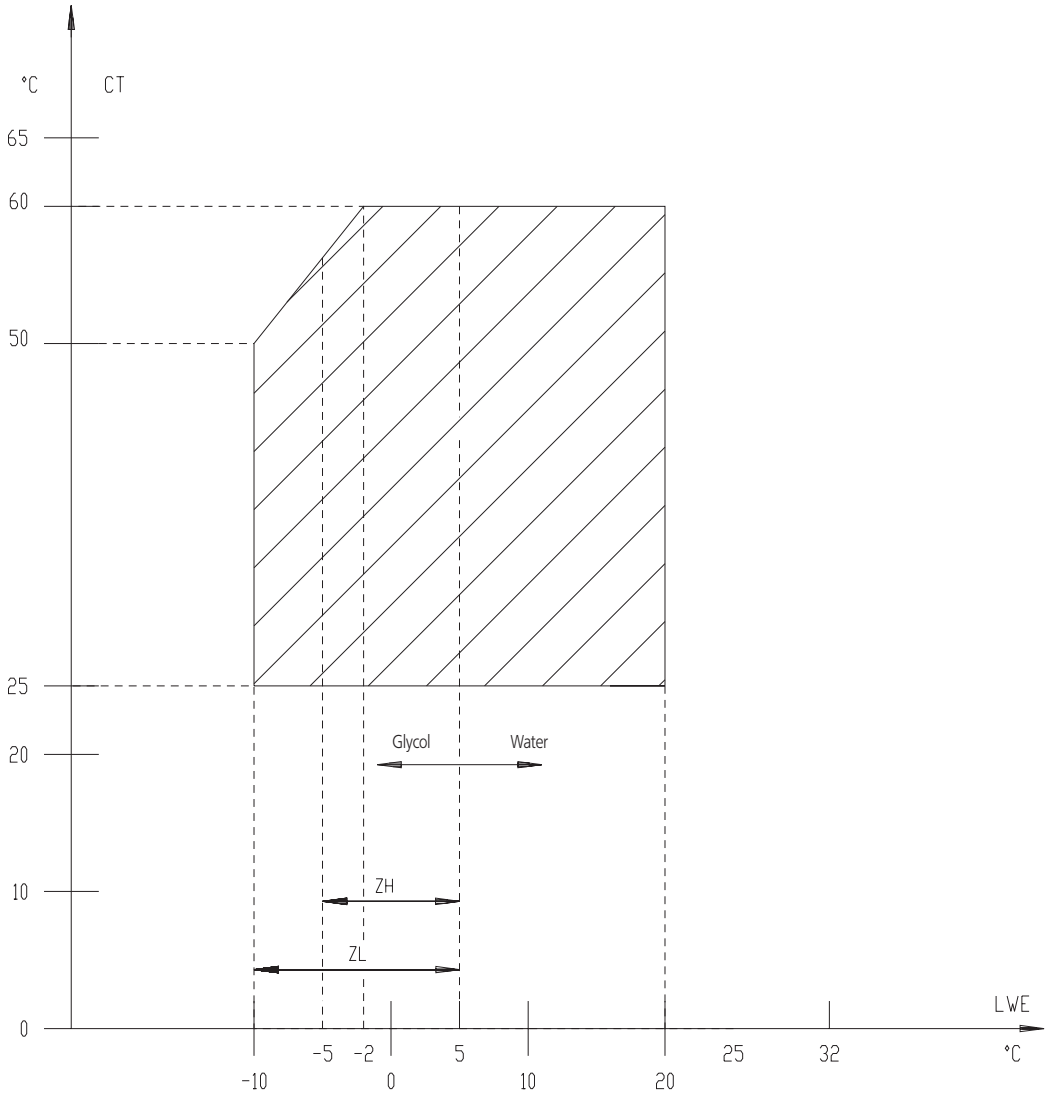
* LWE = Leaving Water Evaporator (°C)
* CT = Condensing Temperature (°C)

4TW57293-1

10 Operation range

10 - 1 Operation Range

EWLP040-065KBW1N

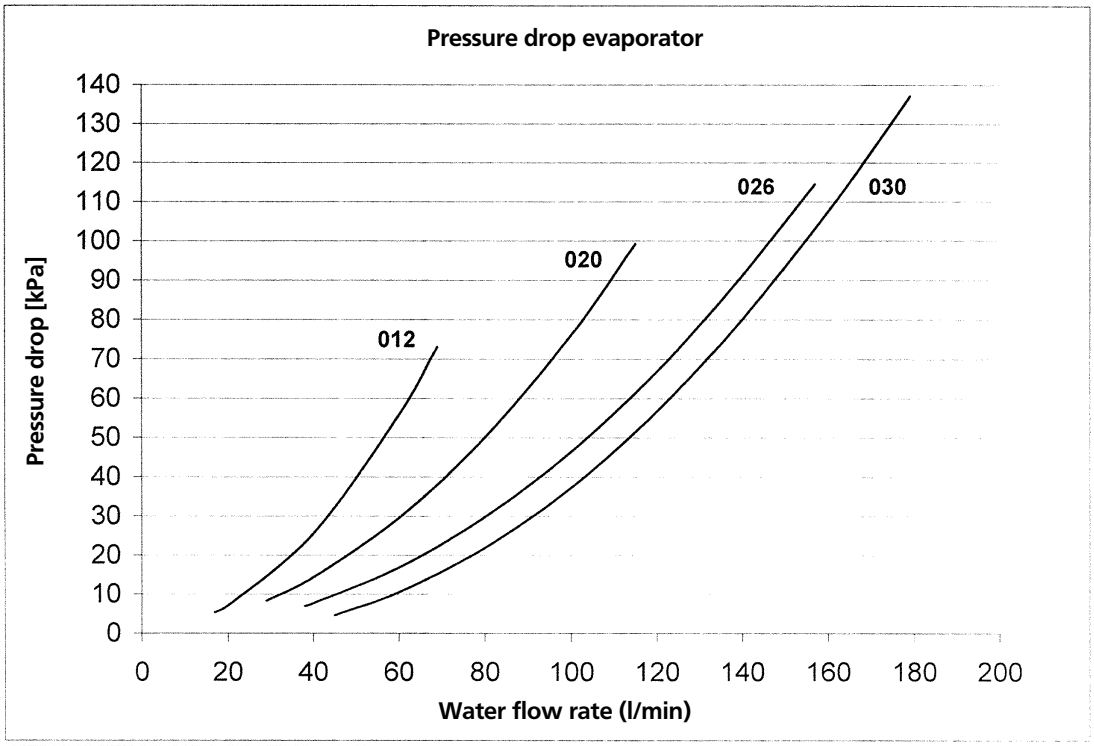


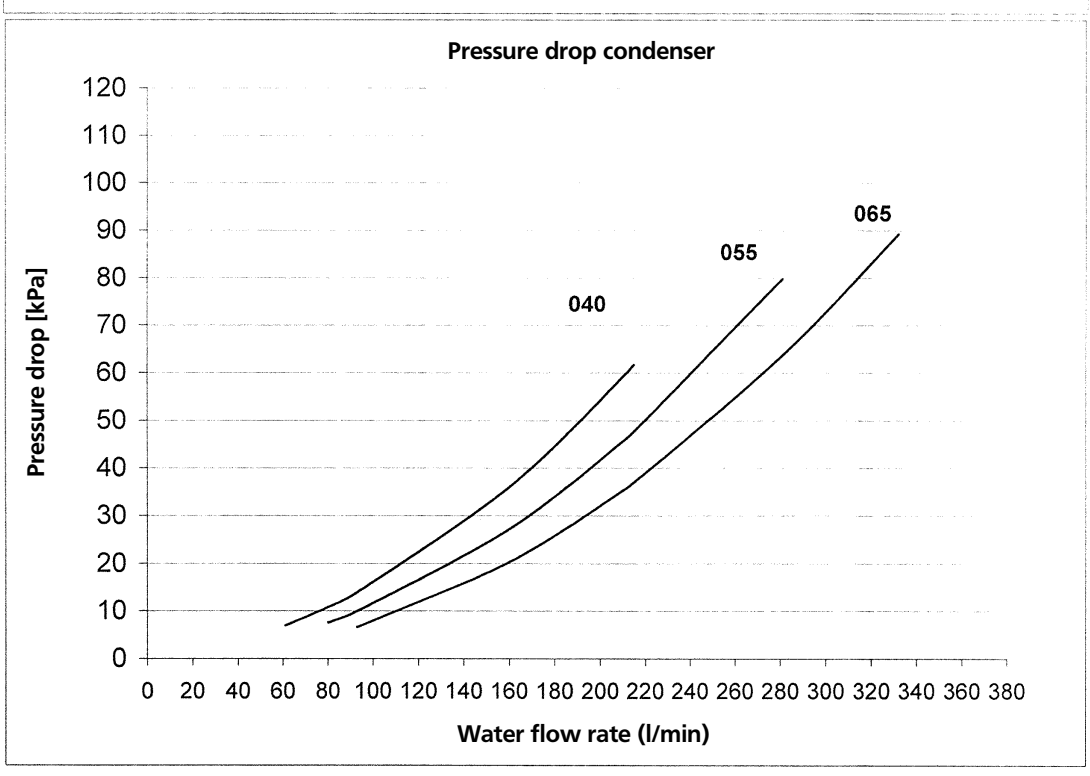
LWE = Leaving Water Evaporator (°C)
CT = Condensing temperature (°C)

4TW53473-2

11 Hydraulic performance

11 - 1 Water Pressure Drop Curve Evaporator





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

4TW57299-1A

In all of us, a green heart

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

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