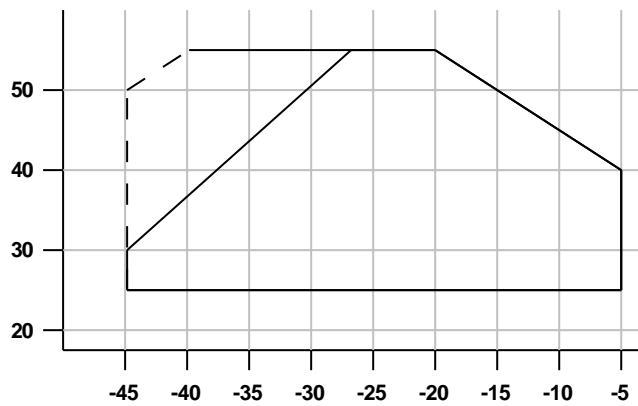


50Hz

DLHA-500

R22



Minimum evaporating temp. with:

———— 25°C Suction Gas Return + Fan

- - - 20K Suction Superheat + Fan

Suction Superheat 10.0K

Evaporating Temperature °C

Liquid subcooling 0.0K

Cond °C	Capacity kW								
	-45	-40	-35	-30	-25	-20	-15	-10	-5
25	2.47	3.63	5.02	6.66	8.61	10.90	13.55	16.55	20.10
30	2.15	3.26	4.59	6.16	8.02	10.20	12.70	15.65	19.00
35	1.84	2.90	4.17	5.67	7.43	9.51	11.95	14.75	17.95
40	1.55	2.56	3.76	5.18	6.87	8.84	11.15	13.85	16.90
45	1.27	2.23	3.37	4.72	6.31	8.19	10.40	12.95	
50	1.03	1.92	3.00	4.27	5.78	7.56	9.64		
55		1.64	2.65	3.85	5.26	6.94			
	Power Input kW								
	-45	-40	-35	-30	-25	-20	-15	-10	-5
25	2.39	2.77	3.16	3.53	3.87	4.18	4.45	4.67	4.82
30	2.39	2.81	3.23	3.65	4.05	4.43	4.77	5.06	5.30
35	2.38	2.83	3.29	3.76	4.21	4.65	5.06	5.43	5.75
40	2.35	2.83	3.33	3.84	4.35	4.85	5.33	5.77	6.18
45	2.32	2.83	3.36	3.91	4.48	5.03	5.58	6.09	
50	2.28	2.81	3.38	3.98	4.59	5.20	5.81		
55		2.79	3.39	4.03	4.69	5.35			
	Current 400V, A								
	-45	-40	-35	-30	-25	-20	-15	-10	-5
25	6.59	6.96	7.37	7.80	8.23	8.65	9.04	9.38	9.66
30	6.55	6.91	7.33	7.78	8.24	8.71	9.15	9.57	9.94
35	6.60	6.96	7.39	7.86	8.37	8.89	9.41	9.90	10.37
40	6.68	7.05	7.50	8.01	8.56	9.14	9.73	10.32	10.89
45	6.74	7.12	7.60	8.15	8.76	9.41	10.09	10.77	
50	6.72	7.12	7.64	8.24	8.91	9.64	10.41		
55		7.00	7.56	8.22	8.96	9.78			
	Mass Flow g/s								
	-45	-40	-35	-30	-25	-20	-15	-10	-5
25	15.30	22.10	30.10	39.40	50.10	62.60	77.00	93.00	111.00
30	13.80	20.60	28.60	37.80	48.50	60.80	74.90	91.00	109.00
35	12.30	19.10	27.00	36.20	46.80	59.00	73.00	89.00	107.00
40	10.80	17.60	25.50	34.60	45.10	57.20	71.10	87.00	105.00
45	9.40	16.10	23.90	32.90	43.30	55.40	69.20	85.00	
50	8.00	14.60	22.40	31.30	41.60	53.50	67.30		
55		13.20	20.90	29.70	39.90	51.80			

50Hz**DLHA-500****R22****DWM Copeland - Compressor - Refrigeration - Previous Gen.****COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Number of cylinders	2
Displacement @ 50 Hz, cu.m/h	26.6
Bore/Stroke, mm	61.9/50.8
Length/Width, mm	515/330
Height, mm	385
Net Weight, kg	95
Gross Weight, kg	101
Suction, inch	1 1/8
Discharge, inch	7/8
Oil Quantity, l	1.6
Frequency Range, Hz	25 - 60
Base mounting (hole dia), mm	295 x 279 (14.0)
High Side PS, bar(g)	28
Low Side PS, bar(g)	22.5

COMPRESSOR ELECTRICAL DATA (380/420V - 3~ - 50Hz)

Maximum Operating Current, A	10.6
Locked Rotor Current, A	75
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED

Oil Pressure Switch	OPS2 Sensor
Mounting Springs	4

ACCESSORIES OPTIONAL

Additional Cooling	70W Vertical Air Flow Fan
Crankcase Heater	70W Internal
Oil Pressure Switch	OPS2 Electronic Switch
Unloaded start	Available
Adapter Kit	For Parallel Operation
Check Valve (NRV)	For unloaded start operation

MOTOR OPTIONS

Power Supply	Nominal Voltage	Motor Code	Start Connection	DOL Connection	Amps Factor
380-420 V/3~/50H	400	EWL		Y	1.00
220-240 V/3~/50H	230	EWL	Y/DELTA	DELTA	1.73
380-420 V/3~/50H	400	EWM	Y/DELTA	DELTA	1.00
220-240 V/3~/60H	230	EWK	Y/DELTA	DELTA	2.09
380-420 V/3~/60H	380	EWK		Y	1.26
440-480 V/3~/60H	460	EWD	Y/DELTA	DELTA	1.00

Model: DLHA-500
Suction Return Temperature 20.0°C

Refrigerant: R22
Liquid subcooling 0.0K

S.I.
50Hz

	Evaporating Temperature °C								
	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
	Capacity kW								
25.0	*2.78	*3.88	*5.20	*6.79	*8.68	*10.90	*13.50	*16.50	*19.95
30.0	*2.52	*3.58	*4.84	*6.36	*8.17	*10.30	*12.80	*15.65	*18.95
35.0		*3.28	*4.49	*5.94	*7.66	*9.69	*12.05	*14.80	*18.00
40.0			*4.15	*5.53	*7.16	*9.09	*11.35	*14.00	*17.00
45.0				*5.13	*6.68	*8.51	*10.65	*13.15	
50.0				*4.74	*6.21	*7.94	*9.98		
55.0					*5.75	*7.39			

	Power Input kW								
	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
25.0	*2.39	*2.77	*3.16	*3.53	*3.87	*4.18	*4.45	*4.67	*4.82
30.0	*2.39	*2.81	*3.23	*3.65	*4.05	*4.43	*4.77	*5.06	*5.30
35.0		*2.83	*3.29	*3.76	*4.21	*4.65	*5.06	*5.43	*5.75
40.0			*3.33	*3.84	*4.35	*4.85	*5.33	*5.77	*6.18
45.0				*3.91	*4.48	*5.03	*5.58	*6.09	
50.0				*3.98	*4.59	*5.20	*5.81		
55.0					*4.69	*5.35			

	COP								
	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
25.0	*1.16	*1.40	*1.65	*1.93	*2.24	*2.61	*3.03	*3.54	*4.14
30.0	*1.05	*1.27	*1.50	*1.74	*2.01	*2.32	*2.68	*3.09	*3.58
35.0		*1.16	*1.37	*1.58	*1.82	*2.08	*2.38	*2.73	*3.13
40.0			*1.25	*1.44	*1.65	*1.87	*2.13	*2.42	*2.75
45.0				*1.31	*1.49	*1.69	*1.91	*2.16	
50.0				*1.19	*1.35	*1.53	*1.72		
55.0					*1.23	*1.38			

	Mass Flow g/s								
	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
25.0	*14.20	*19.80	*26.60	*34.80	*44.60	*56.20	*69.90	*86.00	*104.50
30.0	*13.30	*18.80	*25.60	*33.70	*43.40	*54.80	*68.40	*84.00	*102.50
35.0		*17.90	*24.60	*32.50	*42.10	*53.50	*66.80	*82.50	*101.00
40.0			*23.50	*31.40	*40.80	*52.10	*65.30	*81.00	*99.00
45.0				*30.30	*39.60	*50.70	*63.80	*79.00	
50.0				*29.20	*38.40	*49.30	*62.20		
55.0					*37.10	*47.90			

	Heat Rejection kW								
	-45.0	-40.0	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
25.0	*3.97	*5.35	*6.95	*8.79	*10.90	*13.35	*16.05	*19.15	*22.60
30.0	*3.70	*5.07	*6.65	*8.46	*10.55	*12.90	*15.55	*18.60	*22.00
35.0		*4.79	*6.34	*8.11	*10.15	*12.45	*15.05	*18.00	*21.30
40.0			*6.03	*7.76	*9.74	*12.00	*14.55	*17.40	*20.60
45.0				*7.41	*9.35	*11.55	*14.05	*16.80	
50.0				*7.06	*8.95	*11.10	*13.50		
55.0					*8.55	*10.65			

[* . Please consult application envelope.]

Copeland Selection Software

REFRIGERANT R22

Operating Conditions:

Evaporating Temperature: -10.0°C
 Condensing Temperature: 45.0°C
 Liquid subcooling: 0.0K
 Suction Return Temperature: 20.0°C

Required Capacity: 20.0 kW
 Compressor Selected: DLHA-500

PERFORMANCE AT SPECIFIED OPERATING POINT **DLHA-500 Data at 50 Hz**

Capacity kW	13.15
Power Input kW	6.09
COP	2.16
Mass Flow g/s	79.00
Heat Rejection kW	16.80

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders 2	Bore/Stroke, mm 61.9/50.8
Length/Width, mm 515/330	Height, mm 385
Net Weight, kg 95	Gross Weight, kg 101
Suction, inch 1 1/8	Discharge, inch 7/8
Oil Quantity, l 1.6	Frequency Range, Hz 25 - 60
High Side PS, bar(g) 28	Low Side PS, bar(g) 22.5
Displacement @ 50 Hz, cu.m/h 26.6	
Base mounting (hole dia), mm 295 x 279 (14.0)	

COMPRESSOR ELECTRICAL DATA (380/420V - 3~ - 50Hz)

Locked Rotor Current, A 75
 Maximum Operating Current, A 10.6
 Default Enclosure Class IP 54 (IEC 34)

ACCESSORIES INCLUDED

Oil Pressure Switch	OPS2 Sensor
Mounting Springs	4

ACCESSORIES OPTIONAL

Additional Cooling
Crankcase Heater
Oil Pressure Switch
Unloaded start
Adapter Kit
Check Valve (NRV)

70W Vertical Air Flow Fan
70W Internal
OPS2 Electronic Switch
Available
For Parallel Operation
For unloaded start operation