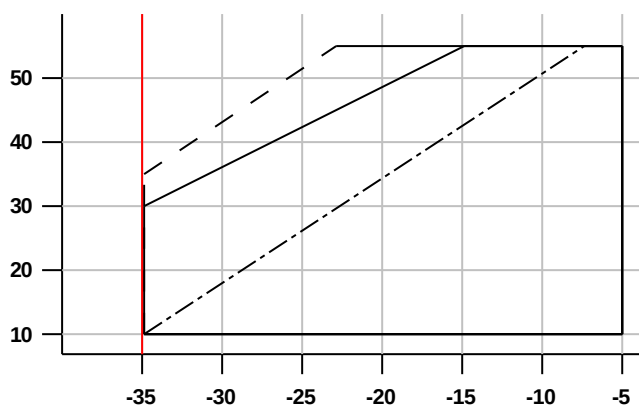


50Hz

D6SU-4000

R22



Minimum evaporating temp. with:

— Voltage limit +/-5% above -35°C

—— 20K Suction Superheat

- - - 20K Suction Superheat + Fan

- . - . 20°C Suction Gas Return

Suction Return Temperature 20.0°C

Evaporating Temperature °C

Liquid subcooling 0.0K

Cond °C	Capacity kW						
	-35	-30	-25	-20	-15	-10	-5
10	32.40	42.30	54.30	68.50	85.00	104.00	126.00
20			49.90	63.20	78.80	96.70	117.50
25			47.30	60.10	75.20	92.50	112.50
30				56.80	71.30	88.00	107.00
35					67.10	83.10	101.50
40					62.70	77.90	95.50
45						72.50	89.30
50						66.80	82.70
55							75.90
	Power Input kW						
	-35	-30	-25	-20	-15	-10	-5
10	13.55	15.00	16.25	17.20	17.90	18.25	18.20
20			18.45	20.00	21.40	22.50	23.30
25			19.50	21.40	23.10	24.60	25.80
30				22.70	24.70	26.60	28.20
35					26.30	28.50	30.50
40					27.80	30.30	32.70
45						32.10	34.90
50						33.70	36.90
55							38.80
	Current 400V, A						
	-35	-30	-25	-20	-15	-10	-5
10	29.54	31.33	32.76	33.73	34.12	33.81	32.68
20			35.36	37.44	39.17	40.42	41.07
25			36.50	39.09	41.43	43.40	44.89
30				40.62	43.54	46.20	48.49
35					45.53	48.85	51.90
40					47.43	51.36	55.14
45						53.76	58.24
50						56.08	61.21
55							64.08
	Mass Flow g/s						
	-35	-30	-25	-20	-15	-10	-5
10	151.00	198.00	255.00	322.00	402.00	494.00	601.00
20			248.00	316.00	395.00	488.00	595.00
25			243.00	310.00	389.00	481.00	588.00
30				303.00	381.00	473.00	580.00
35					372.00	463.00	569.00
40					360.00	451.00	556.00
45						436.00	541.00
50						419.00	523.00
55							502.00

50Hz**D6SU-4000****R22****DWM Copeland - Compressor - Refrigeration - Standard****COMPRESSOR MECHANICAL AND PHYSICAL DATA**

Number of cylinders	6
Displacement @ 50 Hz, cu.m/h	151.8
Bore/Stroke, mm	80.6/57.0
Length/Width, mm	740/570
Height, mm	539
Net Weight, kg	265
Gross Weight, kg	281
Suction, inch	2 5/8
Discharge, inch	1 5/8
Oil Quantity, l	6.8
Frequency Range, Hz	25 - 60
Base mounting (hole dia), mm	381 x 305 (18.0)
High Side PS, bar(g)	28
Low Side PS, bar(g)	22.5

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

Maximum Operating Current, A	66.8
Locked Rotor Current, A	304
Default Enclosure Class	IP 54 (IEC 34)

MOTOR OPTIONS

Power Supply	Nominal Voltage	Motor Code	Start Connection	DOL Connection	Amps Factor
380-420 V/3~/50H	400	AWM	YY/Y	Y	1.00
220-240 V/3~/50H	230	EWL	Y/DELTA	DELTA	1.73
380-420 V/3~/50H	400	EWL		Y	1.00
380-420 V/3~/50H	400	EWM	Y/DELTA	DELTA	1.00
220-240 V/3~/50H	230	AWR	YY/Y	Y	1.73
500-550 V/3~/50H	525	AWY	YY/Y	Y	0.76
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
208-230 V/3~/60H	230	AWC	YY/Y	Y	2.19
380 V/3~/60Hz	380	AWX	YY/Y	Y	1.26
440-480 V/3~/60H	460	AWD	YY/Y	Y	1.00

Model: D6SU-4000

Refrigerant: R22

S.I.

Suction Return Temperature 20.0°C

Liquid subcooling 0.0K

50Hz

	Evaporating Temperature °C						
	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
	Capacity kW						
10.0	32.40	42.30	54.30	68.50	85.00	104.00	126.00
15.0		40.60	52.20	66.00	82.00	100.50	122.00
20.0			49.90	63.20	78.80	96.70	117.50
25.0			47.30	60.10	75.20	92.50	112.50
30.0				56.80	71.30	88.00	107.00
35.0					67.10	83.10	101.50
40.0					62.70	77.90	95.50
45.0						72.50	89.30
50.0						66.80	82.70
55.0							75.90

	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
	Power Input kW						
10.0	13.55	15.00	16.25	17.20	17.90	18.25	18.20
15.0		15.85	17.35	18.65	19.65	20.40	20.80
20.0			18.45	20.00	21.40	22.50	23.30
25.0			19.50	21.40	23.10	24.60	25.80
30.0				22.70	24.70	26.60	28.20
35.0					26.30	28.50	30.50
40.0					27.80	30.30	32.70
45.0						32.10	34.90
50.0						33.70	36.90
55.0							38.80

	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
	COP						
10.0	2.38	2.82	3.34	3.98	4.75	5.70	6.91
15.0		2.56	3.01	3.54	4.17	4.93	5.86
20.0			2.70	3.15	3.68	4.30	5.03
25.0			2.42	2.81	3.26	3.77	4.36
30.0				2.50	2.88	3.31	3.80
35.0					2.55	2.92	3.33
40.0					2.26	2.57	2.92
45.0						2.26	2.56
50.0						1.98	2.24
55.0							1.95

	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
	Mass Flow g/s						
10.0	151.00	198.00	255.00	322.00	402.00	494.00	601.00
15.0		195.00	252.00	320.00	399.00	492.00	599.00
20.0			248.00	316.00	395.00	488.00	595.00
25.0			243.00	310.00	389.00	481.00	588.00
30.0				303.00	381.00	473.00	580.00
35.0					372.00	463.00	569.00
40.0					360.00	451.00	556.00
45.0						436.00	541.00
50.0						419.00	523.00
55.0							502.00

Model: D6SU-4000

Refrigerant: R22

	-35.0	-30.0	-25.0	-20.0	-15.0	-10.0	-5.0
	Heat Rejection kW						
10.0	45.30	56.60	69.70	84.80	102.00	121.50	143.00
15.0		55.60	68.70	83.70	100.50	120.00	141.50
20.0			67.40	82.20	99.10	118.00	139.50
25.0			65.80	80.50	97.10	116.00	137.00
30.0				78.40	94.70	113.00	134.00
35.0					92.00	110.00	130.50
40.0					89.00	106.50	126.50
45.0						103.00	122.50
50.0						98.90	118.00
55.0							113.00

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:

D6SU-4000

PERFORMANCE AT SPECIFIED OPERATING POINT
D6SU-4000 Data at 50 Hz

Capacity kW	72.50
Power Input kW	32.10
COP	2.26
Mass Flow g/s	436.00
Heat Rejection kW	103.00

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Number of cylinders 6	Bore/Stroke, mm 80.6/57.0
Length/Width, mm 740/570	Height, mm 539
Net Weight, kg 265	Gross Weight, kg 281
Suction, inch 2 5/8	Discharge, inch 1 5/8
Oil Quantity, l 6.8	Frequency Range, Hz 25 - 60
High Side PS, bar(g) 28	Low Side PS, bar(g) 22.5
Displacement @ 50 Hz, cu.m/h 151.8	
Base mounting (hole dia), mm 381 x 305 (18.0)	

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

Locked Rotor Current, A 304
Maximum Operating Current, A 66.8
Default Enclosure Class IP 54 (IEC 34)