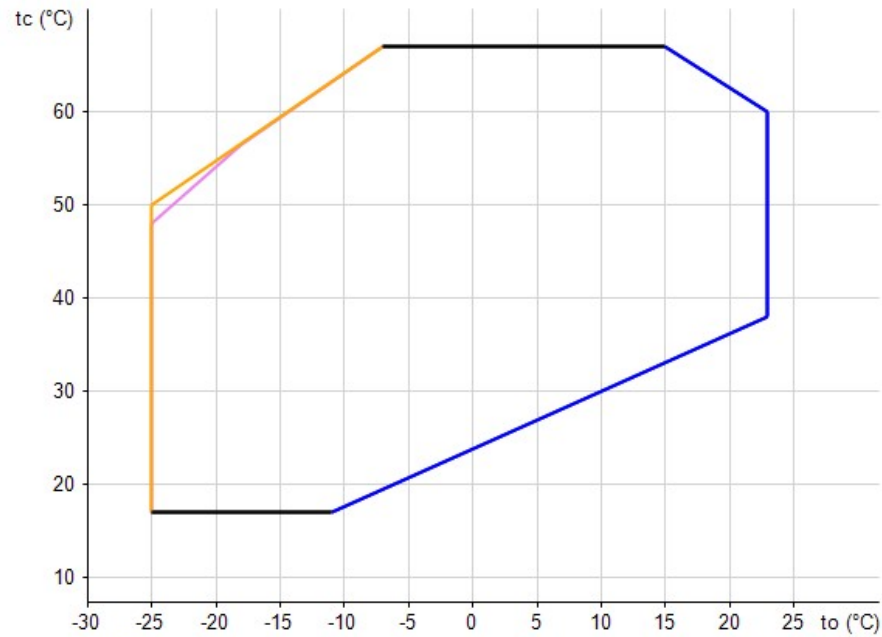


50 Hz

YH33K1E-TFD

R407C Dew Point



Minimum Evaporating Temp. With:

- 10 K Suction Superheat — 5 K Suction Superheat
- Maximum Evaporating Temperature

Suction Superheat 10.0K

Liquid Subcooling 0.0K

Evaporating Temperature, °C

Cond °C	Cooling Capacity, kW											
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0
17.0	14.85	18.75	23.40									
20.0	14.45	18.30	22.90	28.40								
25.0	13.75	17.50	22.00	27.30	33.60	41.00						
30.0	13.00	16.60	20.90	26.00	32.10	39.10	47.30	50.90	56.70			
35.0	12.20	15.70	19.80	24.70	30.40	37.10	44.90	48.40	53.90	58.90	64.30	
40.0	11.40	14.70	18.60	23.20	28.70	35.00	42.40	45.70	51.00	55.70	60.80	72.00
45.0	10.55	13.70	17.35	21.70	26.80	32.80	39.80	42.90	47.90	52.40	57.20	67.80
50.0		12.60	16.10	20.10	24.90	30.50	37.10	40.00	44.70	48.90	53.40	63.50
55.0			14.75	18.50	22.90	28.20	34.30	37.00	41.30	45.30	49.50	59.00
60.0				16.80	20.90	25.70	31.30	33.80	37.90	41.60	45.50	54.30
65.0					18.75	23.10	28.30	30.60	34.30	37.70	41.40	
67.0					17.90	22.10	27.00	29.30	32.90	36.10	39.70	

50 Hz

YH33K1E-TFD

R407C Dew Point

Cond °C	Power, kW											
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0
17.0	6.16	6.50	6.83									
20.0	6.19	6.55	6.91	7.24								
25.0	6.37	6.75	7.14	7.52	7.88	8.21						
30.0	6.68	7.09	7.51	7.93	8.33	8.71	9.05	9.18	9.35			
35.0	7.15	7.58	8.02	8.47	8.92	9.34	9.74	9.89	10.10	10.25	10.40	
40.0	7.75	8.20	8.67	9.15	9.63	10.10	10.55	10.70	10.95	11.15	11.35	11.65
45.0	8.51	8.97	9.46	9.97	10.50	11.00	11.50	11.70	11.95	12.15	12.40	12.75
50.0		9.88	10.40	10.90	11.45	12.00	12.55	12.75	13.05	13.30	13.55	14.00
55.0			11.45	12.00	12.60	13.15	13.75	13.95	14.30	14.60	14.85	15.35
60.0				13.25	13.85	14.45	15.05	15.30	15.65	15.95	16.25	16.80
65.0					15.20	15.85	16.50	16.75	17.15	17.45	17.80	
67.0					15.80	16.45	17.10	17.40	17.75	18.10	18.40	

Cond °C	Current at 400 V, A											
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0
17.0	11.83	12.26	12.68									
20.0	11.87	12.33	12.78	13.22								
25.0	12.09	12.58	13.08	13.57	14.05	14.49						
30.0	12.49	13.02	13.56	14.11	14.65	15.16	15.62	15.79	16.03			
35.0	13.09	13.65	14.24	14.84	15.44	16.02	16.56	16.76	17.05	17.27	17.47	
40.0	13.89	14.48	15.11	15.76	16.42	17.06	17.68	17.92	18.26	18.53	18.78	19.22
45.0	14.89	15.51	16.18	16.88	17.59	18.31	19.00	19.27	19.66	19.97	20.27	20.81
50.0		16.76	17.46	18.21	18.97	19.75	20.51	20.81	21.25	21.61	21.95	22.59
55.0			18.96	19.75	20.56	21.40	22.23	22.56	23.05	23.44	23.83	24.57
60.0				21.50	22.37	23.26	24.16	24.52	25.05	25.49	25.92	26.75
65.0					24.39	25.34	26.30	26.69	27.27	27.74	28.22	
67.0					25.27	26.23	27.22	27.62	28.21	28.71	29.20	

50 Hz

YH33K1E-TFD

R407C Dew Point

Cond °C	Suction Mass Flow, g/s											
	-25.0	-20.0	-15.0	-10.0	-5.0	0.0	5.0	7.0	10.0	12.5	15.0	20.0
17.0	79.00	98.10	121.00									
20.0	78.80	98.10	121.00	148.00								
25.0	78.30	97.80	121.00	148.00	179.50	216.00						
30.0	77.40	97.20	120.50	147.50	178.50	215.00	256.00	274.00	303.00			
35.0	76.30	96.20	119.50	146.00	177.50	213.00	254.00	272.00	301.00	326.00	353.00	
40.0	75.00	94.90	118.00	144.50	175.50	211.00	252.00	269.00	298.00	323.00	350.00	409.00
45.0	73.40	93.40	116.50	142.50	173.00	208.00	248.00	266.00	294.00	319.00	346.00	404.00
50.0		91.50	114.00	140.50	170.50	205.00	245.00	262.00	290.00	315.00	341.00	399.00
55.0			112.00	137.50	167.00	201.00	240.00	257.00	285.00	309.00	335.00	393.00
60.0				134.00	163.00	196.50	235.00	252.00	279.00	303.00	329.00	386.00
65.0					158.50	191.00	229.00	245.00	272.00	296.00	322.00	
67.0					156.50	189.00	226.00	243.00	269.00	293.00	319.00	

COMPRESSOR MECHANICAL AND PHYSICAL DATA

Displacement @ 50 Hz, m³/h	42.4
Length/Width, mm	284/289
Height, mm	551
Net Weight, kg	68.2
Stub Suction, inch	1 3/8
Stub Discharge, inch	7/8
Oil Quantity, l	3.58
Oil type (original charge)	POE RL32-3MAF
Base mounting (hole dia), mm	190 x 190 (0)
Sound Pressure @ 1m (HT), dBA	71
Sound Power (HT), dBA	82
Sound Power with Sound Shell (HT), dBA	71
Sound Conditions (HT, Temperatures:	-7 / 50 / 3 °C at 50 Hz
Evap./Cond./Suction at freq./speed)	
PED Category	3
Max. Low Side Internal Free Volume, l	12.6
Max. High Side Internal Free Volume, l	1.5
Max. Internal Free Volume, l	14.1
High Side PS gauge, bar	50
Low Side PS gauge, bar	30.4
Low Side TS Max., °C	55
Low Side TS Min., °C	-35
High Side TS Max., °C	150
High Side TS Min., °C	-35
Refrigerant's GWP	1774
Refrigerant's classification	A1

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

Maximum Operating Current, A	34
Locked Rotor Current, A	141
Winding Resistance, ohm	0.99
Default Enclosure Class	IP 54 (IEC 34)

ACCESSORIES INCLUDED
ACCESSORIES OPTIONAL
MOTOR OPTIONS

Motor Code	Power Supply	Nominal Voltage, V	Start Connection	DOL Connection	Amps Factor
TFD	380-420 V / 3~ / 50 Hz	400		Y	1.00
TFD	460 V / 3~ / 60 Hz	460		Y	1.04