

1 . Specifications

Model	IRM15.0HPE7G-100	Power	15HP
Displacement(m ³ /h)	49.2	Refrigerant	R404A
Cooling Cap.(W) ^(a)	31416	Input Power(W) ^(a)	14860
Rated Load Amps(A) ^(a)	50.1	COP ^(a)	2.11
Max. Vibration(mm) ^(a)	<0.10	Sound Level (dBA) ^(a)	80
Test Power Source ^(a)	60Hz-220V	Rated Speed (RPM) ^(a)	3500
Max. Moisture (mg)	< 500	Max. Impurity (mg)	< 100
Oil Circulation (%) ^(a)	<1%	Weight (kg , With Oil)	59
Electrical Specification	Power Source	208V-230V 3~60Hz	
	Run Capacitor	/	
	Min. Operation Voltage(V) ^(b)	187	
	Max. Operation Voltage(V)	253	
	Min. Starting Voltage(V) ^(c)	177	
	Lock Rotor Amps(A)	260.00	
	Max. Operation Current ^(d)	86.3 (A)	
	Motor Insulation Temp.(°C)	130	
Terminal Resistance (Ω) (± 10%) At 25 °C	T1(C)-T2(S)	0.19	
	T2(S)-T3(R)	0.18	
	T3(R)-T1(C)	0.18	
Lubrication	Oil Type	POE	
	Initial Charge(L)	3.5	
	Recharge(L)	3	
Electrical Safety	Insulation Voltage(V)	2500	
	Leakage Current(mA)	≤5	
	Insulation Resistance(M Ω)	>20	
	Ground Resistance(Ω)	<0.1	
Max. Operation Pressure	High Side(MPa)	3.2	
	Low Side(MPa)	2	

Notes :

- a) Test Condition: Based On Test Power Voltage , First Rated Condition ;
- b) Test Condition: ET 10°C , CT 65°C , SH 11.1K
- c) Test Condition : Discharge/Suction Pressure Set To Refrigeration Saturation Pressure At 40°C.
- d) Test Condition: ET 10°C , CT 65°C , SH11.1K , 90% Min. Rated Voltage ;

2 . Configuration

Suction/Discharge	Injection	Sight Glass	Thermal Tube
Welded Fittings	NONE	Screw Sight Glass	NONE

3 . Certifications

Certifications	Report N.O.
CB	/
CE	/
CCC	/
PED	/
UL	/

4 . First Test Condition (°C)

Cooling Cap. and COP No Less Than 95% of Nominal Value , Power and Current No More Than 105% of Nominal Value (Performance And Sound Power Need 24hrs Break In At High Load Running Condition)

Item	Parameter	Value
1	Evaporating Temp.	-6.7
2	Condensing Temp.	48.9
3	Ambient Temp.	35.0
4	Super Heat	25
5	Sub Cooling	0

5 . Compressor Protection Parts

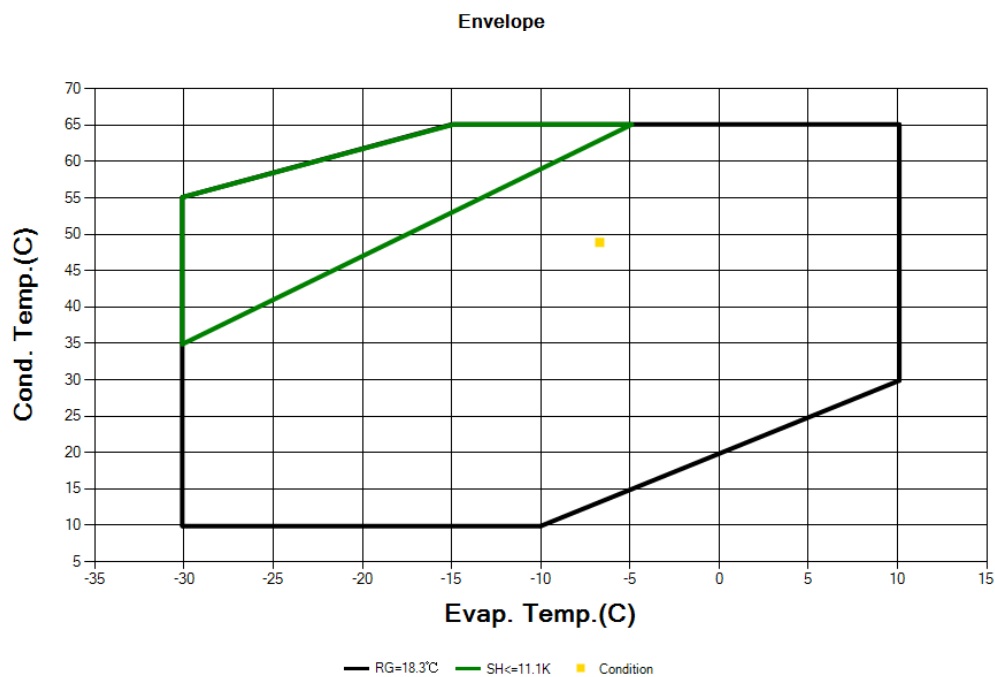
- a) Thermal Protection Inside:
- b) Internal Pressure Release Valve , Open Range (Pressure Difference Between Discharge And Suction) : 2.76~3.10Mpa

6. Performance Data-

kW	Temp. Cond. (°C)	Temp. Evap. (°C)								
		-30	-25	-20	-15	-10	-5	0	5	10
Cooling Cap.	65				12.98	16.33	20.36	25.20	31.05	38.15
	60			12.55	15.79	19.66	24.28	29.79	36.39	44.34
	55	9.05	11.61	14.68	18.34	22.67	27.81	33.91	41.17	49.88
	50	10.39	13.25	16.67	20.71	25.48	31.10	37.75	45.64	55.06
	45	11.64	14.79	18.53	22.94	28.13	34.23	41.41	49.91	60.02
	40	12.80	16.23	20.29	25.06	30.67	37.24	44.95	54.06	64.89
	35	13.89	17.59	21.96	27.10	33.12	40.16	48.43	58.18	69.74
	30	14.91	18.87	23.56	29.06	35.51	43.05	51.90	62.32	74.68
	25	15.86	20.09	25.10	30.98	37.87	45.95	55.42	66.57	
	20	16.75	21.26	26.59	32.88	40.25	48.89	59.04		
	15	17.59	22.38	28.07	34.78	42.67	51.93			
	10	18.40	23.49	29.55	36.72	45.18				
Input Power	65				18.81	19.58	20.30	20.98	21.61	22.18
	60			16.24	16.99	17.71	18.40	19.04	19.64	20.19
	55	13.30	14.03	14.74	15.44	16.12	16.76	17.37	17.94	18.47
	50	12.13	12.80	13.46	14.11	14.74	15.35	15.93	16.47	16.98
	45	11.13	11.73	12.34	12.94	13.54	14.11	14.66	15.19	15.68
	40	10.24	10.79	11.35	11.90	12.46	13.00	13.53	14.04	14.51
	35	9.42	9.91	10.42	10.94	11.46	11.98	12.48	12.97	13.44
	30	8.62	9.07	9.53	10.01	10.50	10.99	11.48	11.95	12.42
	25	7.80	8.20	8.63	9.07	9.53	9.99	10.46	10.93	
	20	6.91	7.27	7.65	8.07	8.50	8.94	9.40		
	15	5.91	6.22	6.57	6.95	7.36	7.79			
	10	4.75	5.02	5.34	5.69	6.08				

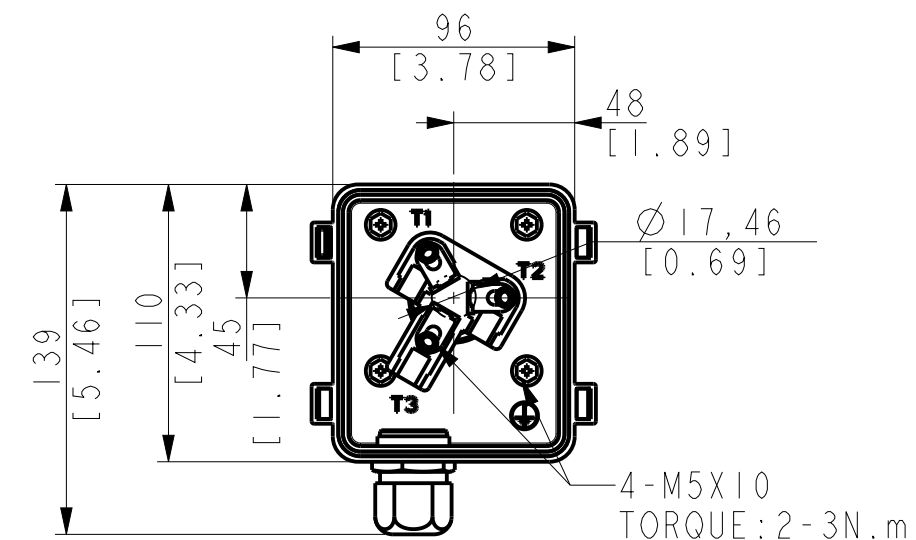
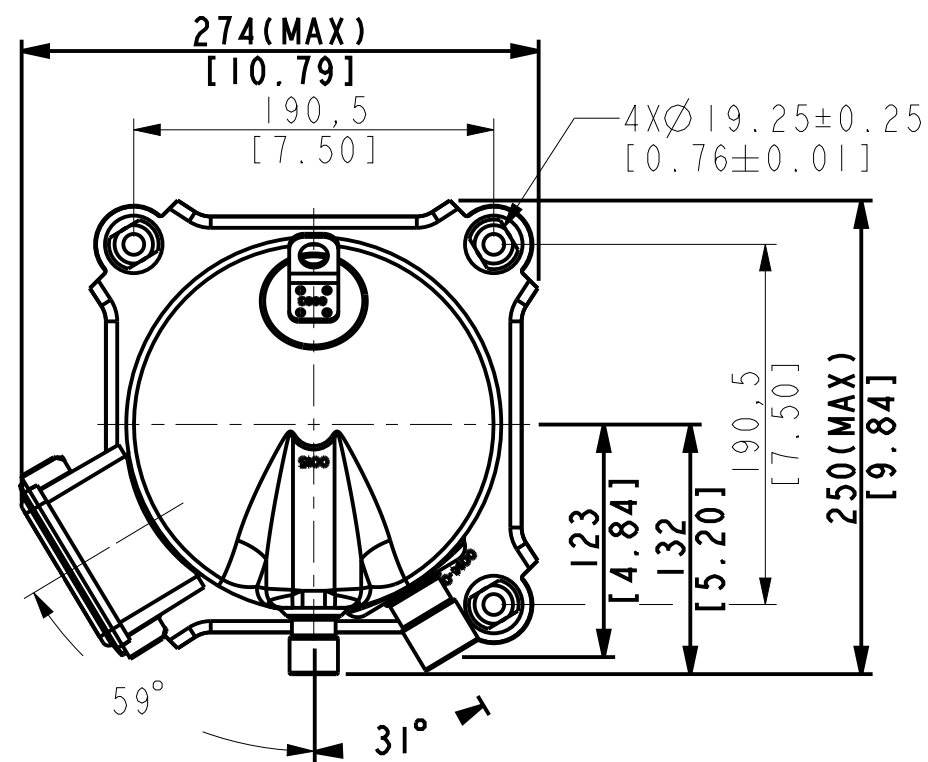
Notes : Capacity Calculation Based On SH=11.1K And Zero Sub Cooling

7. Application Envelope

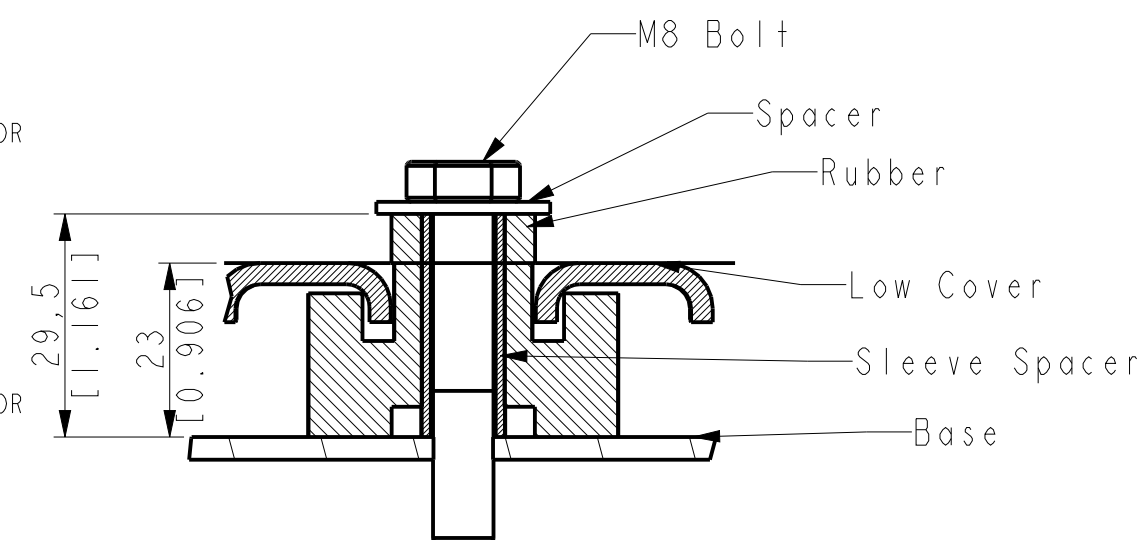
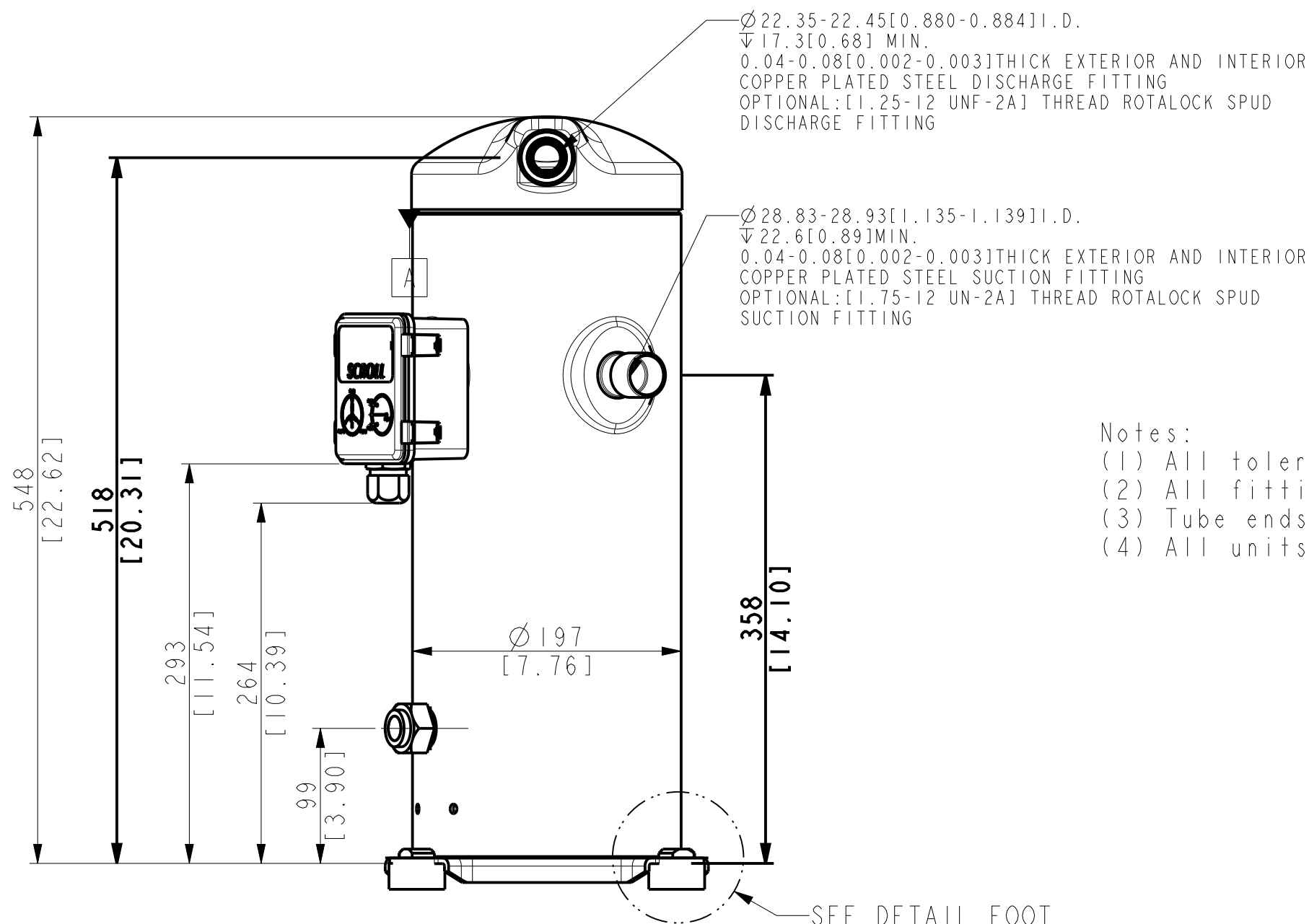


For Compressor Safety, Shutdown Compressor When DLT Above 125°C ;ReStart Compressor When DLT Below 85°C

8. Drawing



TERMINAL BOX LAYOUT
SCALE 1:3



DETAIL FOOT

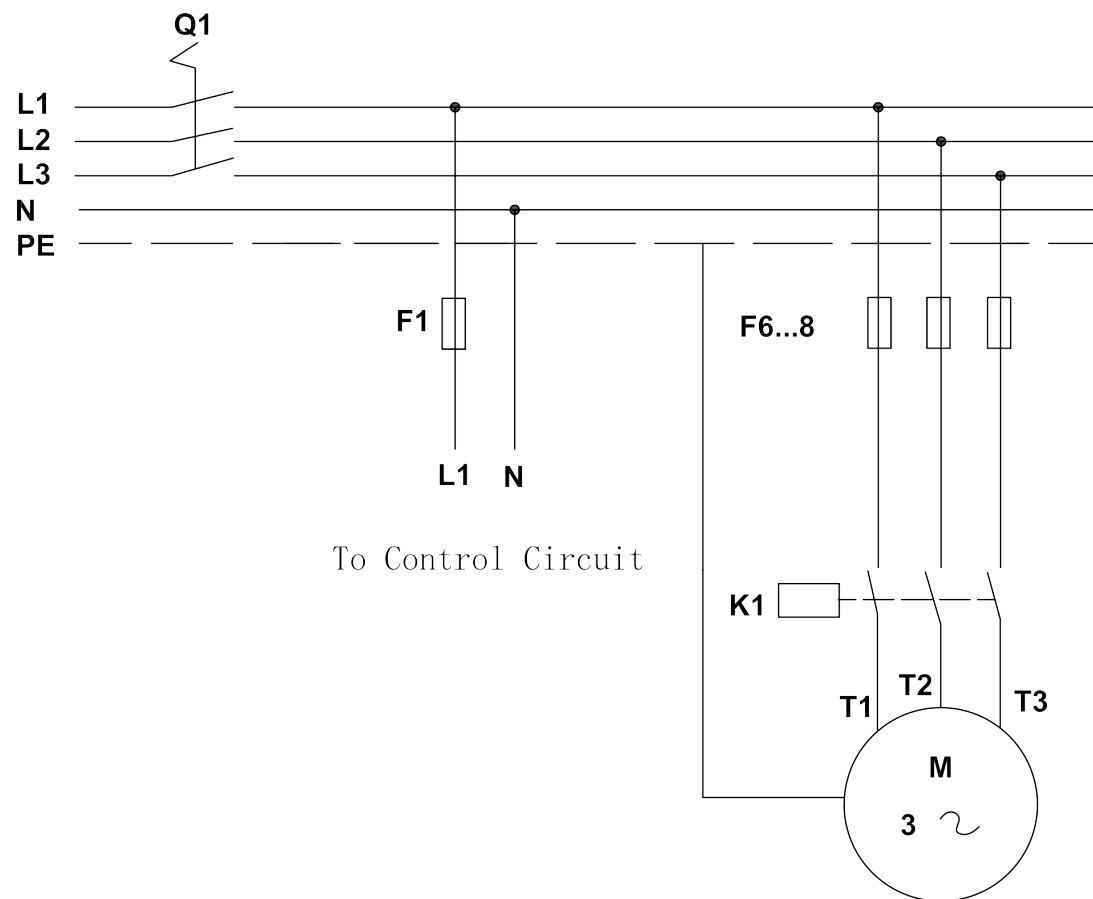
Notes:

- (1) All tolerances 1.5mm [0.06in] unless otherwise specified
- (2) All fittings: + 3.0mm 0.12in
- (3) Tube ends must be plugged
- (4) All units are in mm[inch]

TECHNICAL DATASHEET
IRM15.0HPE7G-100

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Electrical Schematics

L1/L2/L3/N/PE: 3 Phase Lines (line/neutral/ground)

Q1: Manual Switch

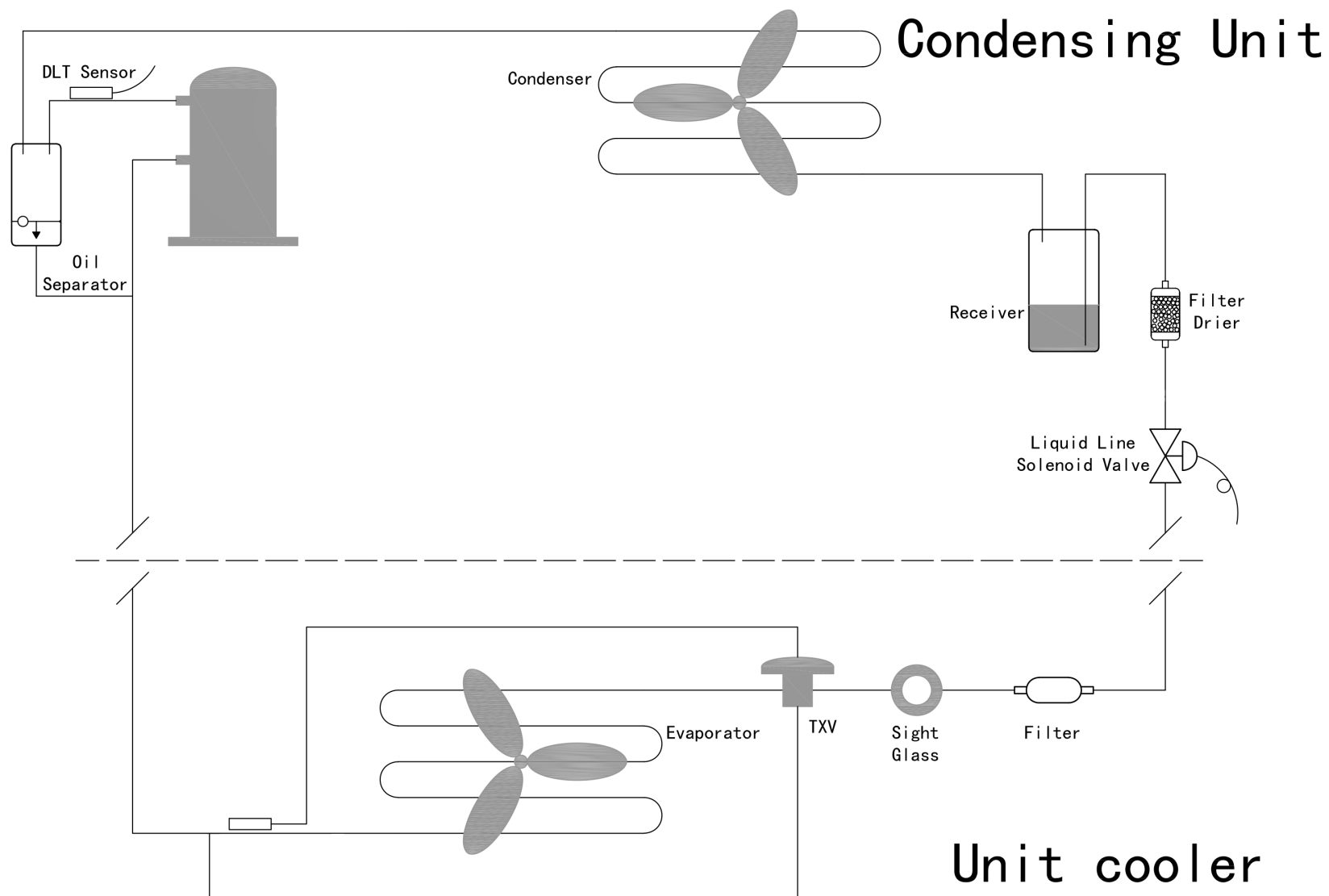
F1/F6...8: Fuse

K1: Compressor Contactor

M: Compressor Motor

T1/T2/T3: Compressor Terminal

General System Schematic



Accessories List

Part N.O.	Specification	Qty	Part Name	Picture	Type	Description
019-0002-00	11.1*29.5	Sleeve Spacer		4	Standard	
200-0001-00		Rubber		4	Standard	
100-0006-00	M5x8,GB/T5789	Bolt		7	Standard	

Accessories List

034-0003-03		Sound Jacket		1	Optional	
028-0003-00	OD:197 90W 220V, L:618.6	Crank Heater		1	Optional	
017-0001-00		Terminal Box		1	Standard	
009-0025-00		Terminal Cover Seal		1	Standard	

Accessories List

009-0023-00		Terminal Sea		1	Standard	
016-0003-00		T-Box		1	Standard	
017-0002-00		Terninal Cover		1	Standard	
031-0015-00		Oil Adapter		1	Optional	
033-0005-00	OUT580R/GOA114	Oil Regulator		1	Optional	

Accessories List

031-0017-00	1-1/4" -12UNF-A	RotaLock Connector		1	Optional	
031-0018-00	1 3/4-12UNF 2A	RotaLock Connector		1	Optional	
030-0000-00	1-1/4"-12UNF	Sight glasses		1	Standard	
200-0002-00		Steel		4	Optional	