

**Specification for
Embraco Scroll Compressor**

MODEL: EAF81H-A1-NABA

RECORD OF REVISIONS

NO.	PAGE	DESCRIPTION	DATE	REVD.

EAF81H-A1-NABA Technical Specifications

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2	Condensing Temp.	54.4
3	Ambient Temp.	35.0
4	Super Heat	11.1
5	Sub Cooling	8.3

5. Compressor Protection Parts

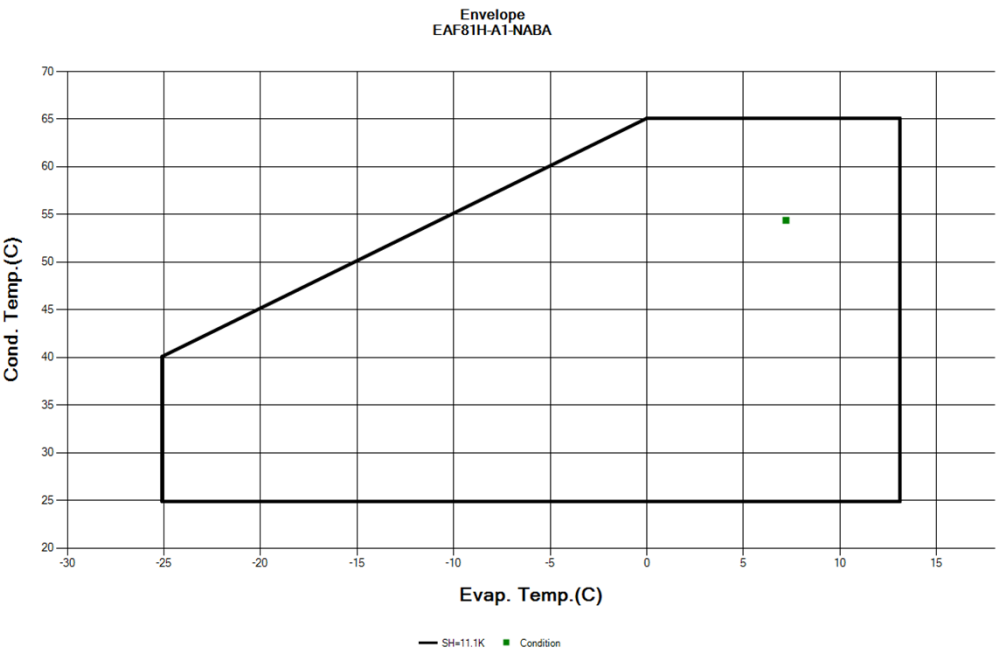
- a) Thermal Protection Inside:3HPD-352;
b) Internal Pressure Release Valve, Open Range (Pressure Difference Between Discharge And Suction) : 3.96~4.31Mpa

6. Performance Data- EAF81H-A1-NABA

kW	Temp. Cond. (°C)	Temp. Evap. (°C)								
		-25	-20	-15	-10	-5	0	5	10	13
Cooling Cap.	65						12.46	15.14	18.28	20.46
	60					11.43	13.96	16.84	20.21	22.57
	55				10.23	12.63	15.30	18.35	21.94	24.46
	50			8.92	11.18	13.69	16.48	19.69	23.49	26.17
	45		7.55	9.69	12.04	14.64	17.55	20.91	24.92	27.77
	40	6.19	8.19	10.40	12.83	15.52	18.55	22.07	26.31	29.34
	35	6.73	8.80	11.08	13.60	16.39	19.55	23.24	27.75	31.00
	30	7.27	9.41	11.77	14.38	17.28	20.60	24.52	29.34	32.85
	25	7.83	10.05	12.51	15.23	18.28	21.80	26.00	31.22	35.03
Input Power	65						8.44	8.34	8.27	8.25
	60					7.48	7.38	7.30	7.24	7.23
	55				6.67	6.57	6.48	6.42	6.38	6.37
	50			5.98	5.88	5.79	5.72	5.68	5.65	5.65
	45		5.38	5.29	5.20	5.13	5.08	5.05	5.04	5.05
	40	4.84	4.76	4.69	4.62	4.57	4.54	4.52	4.52	4.53
	35	4.27	4.21	4.16	4.12	4.08	4.06	4.06	4.07	4.09
	30	3.75	3.71	3.68	3.66	3.64	3.63	3.64	3.66	3.68
	25	3.26	3.24	3.23	3.22	3.22	3.23	3.24	3.27	3.30

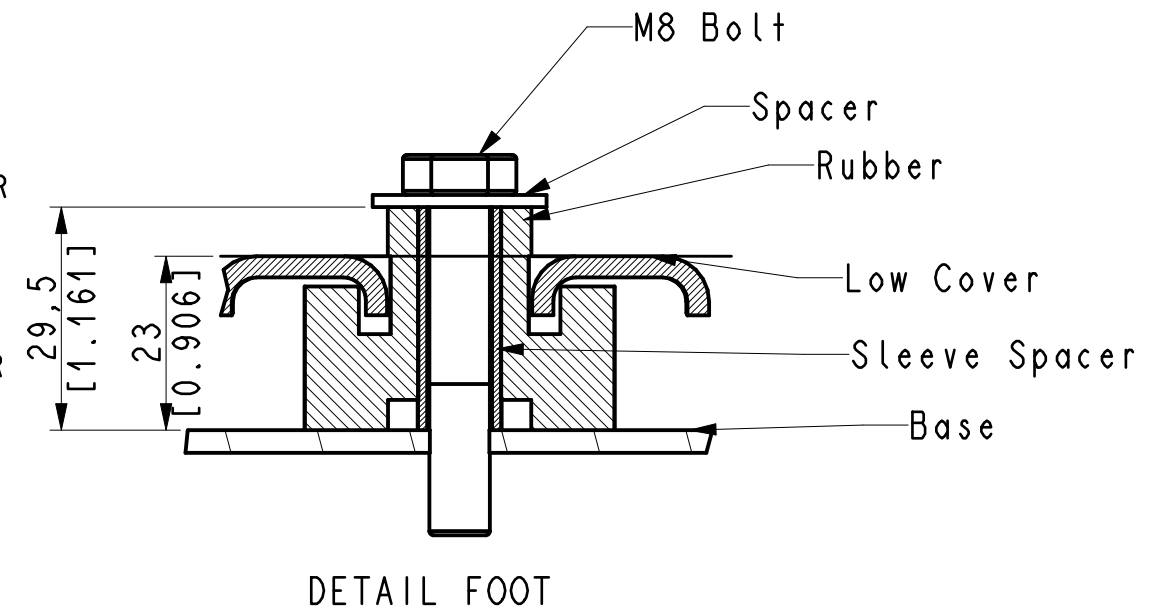
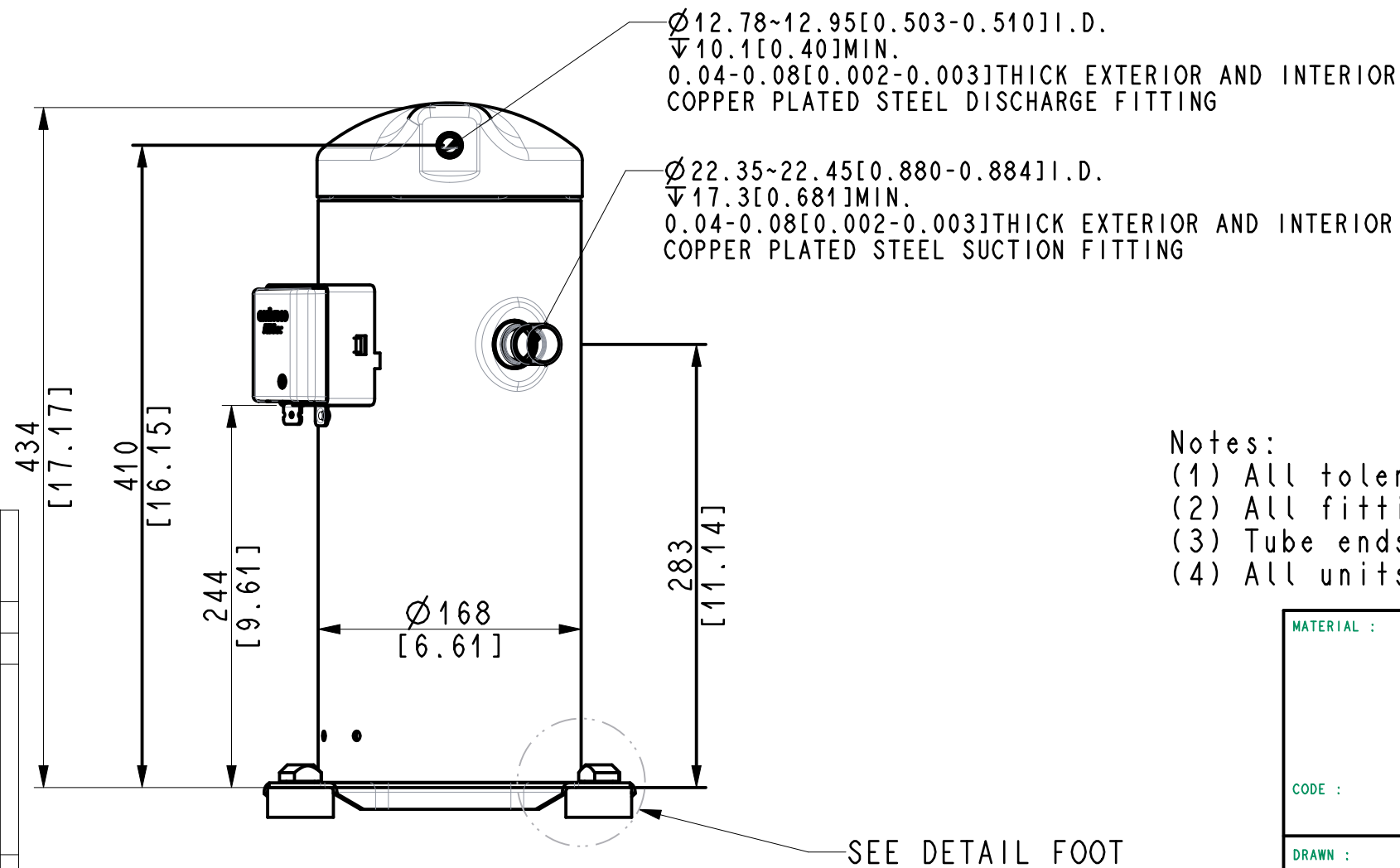
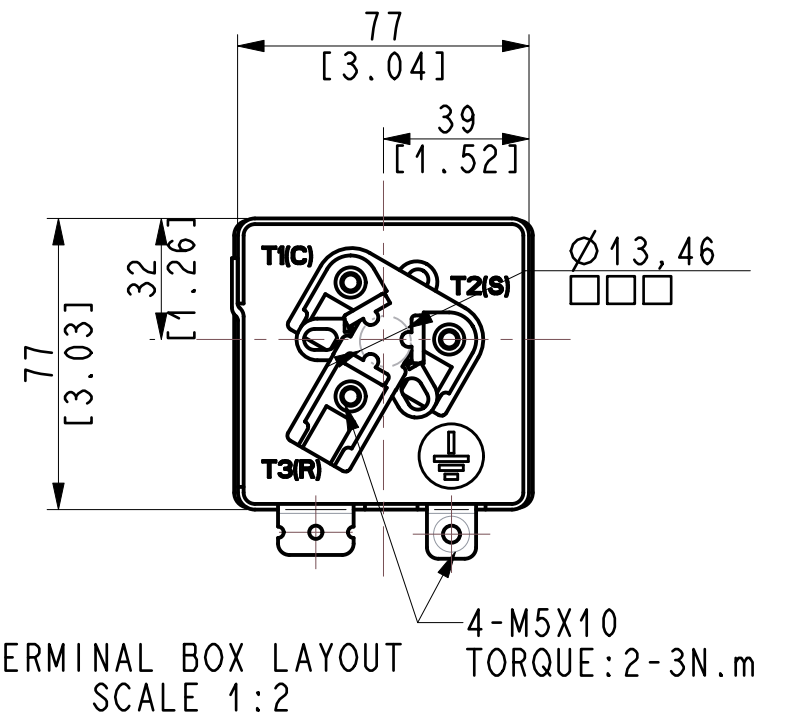
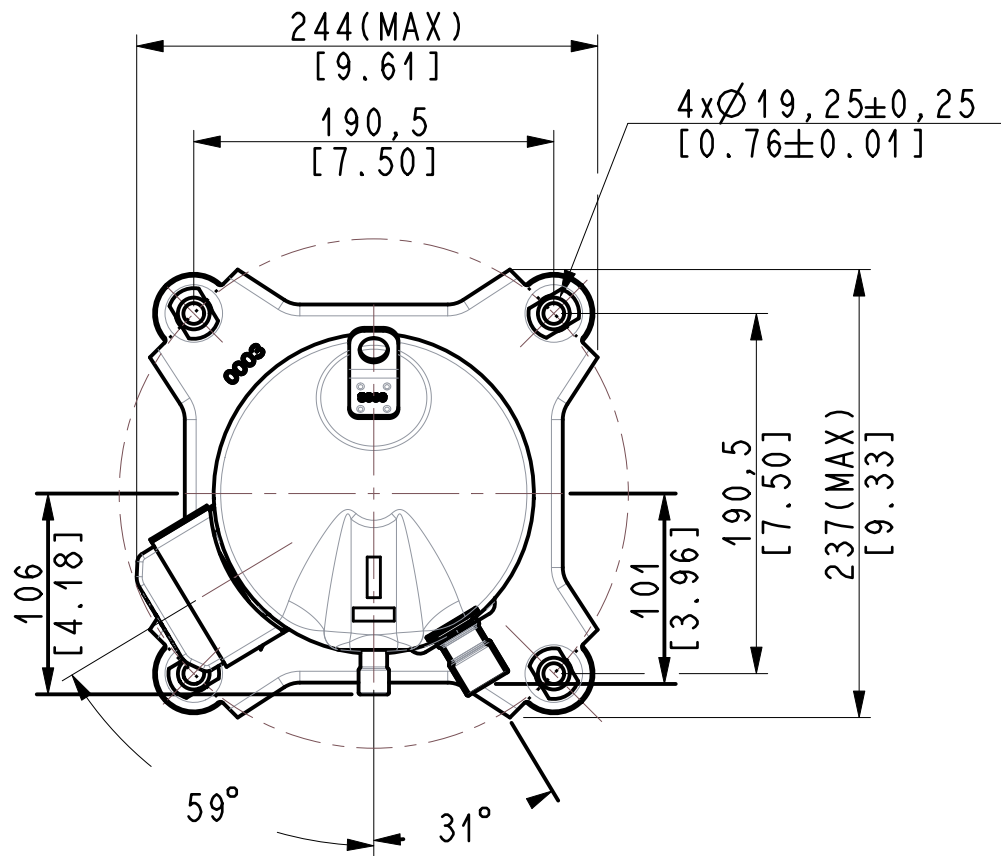
Notes: Capacity Calculation Based On SH=11.1K,SC=8.3K

7. Application Envelope



For compressor safety, shutdown compressor when DLT is above 125°C.
Restart compressor when DLT is below 85°C.

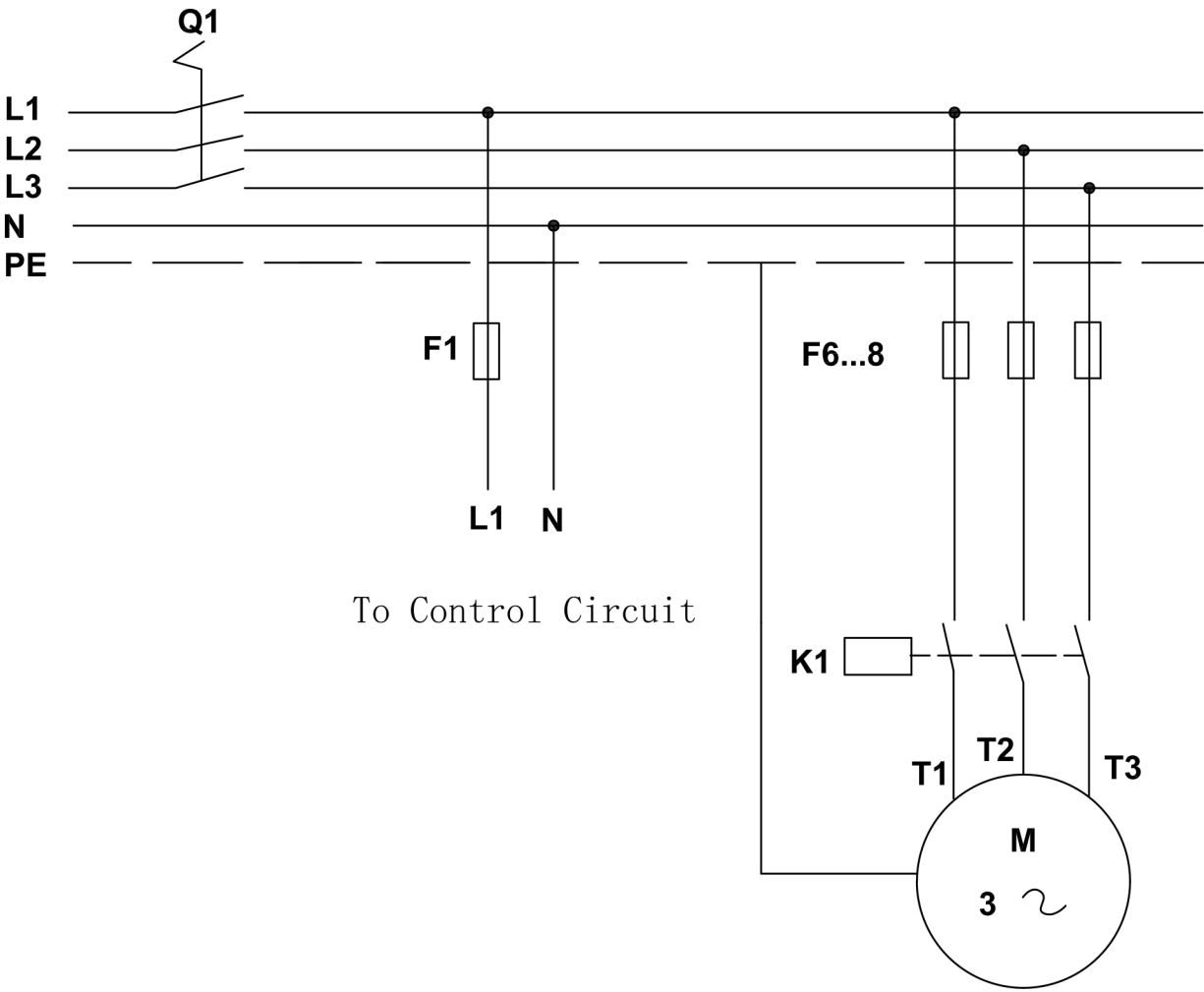
8. Drawing



Notes:

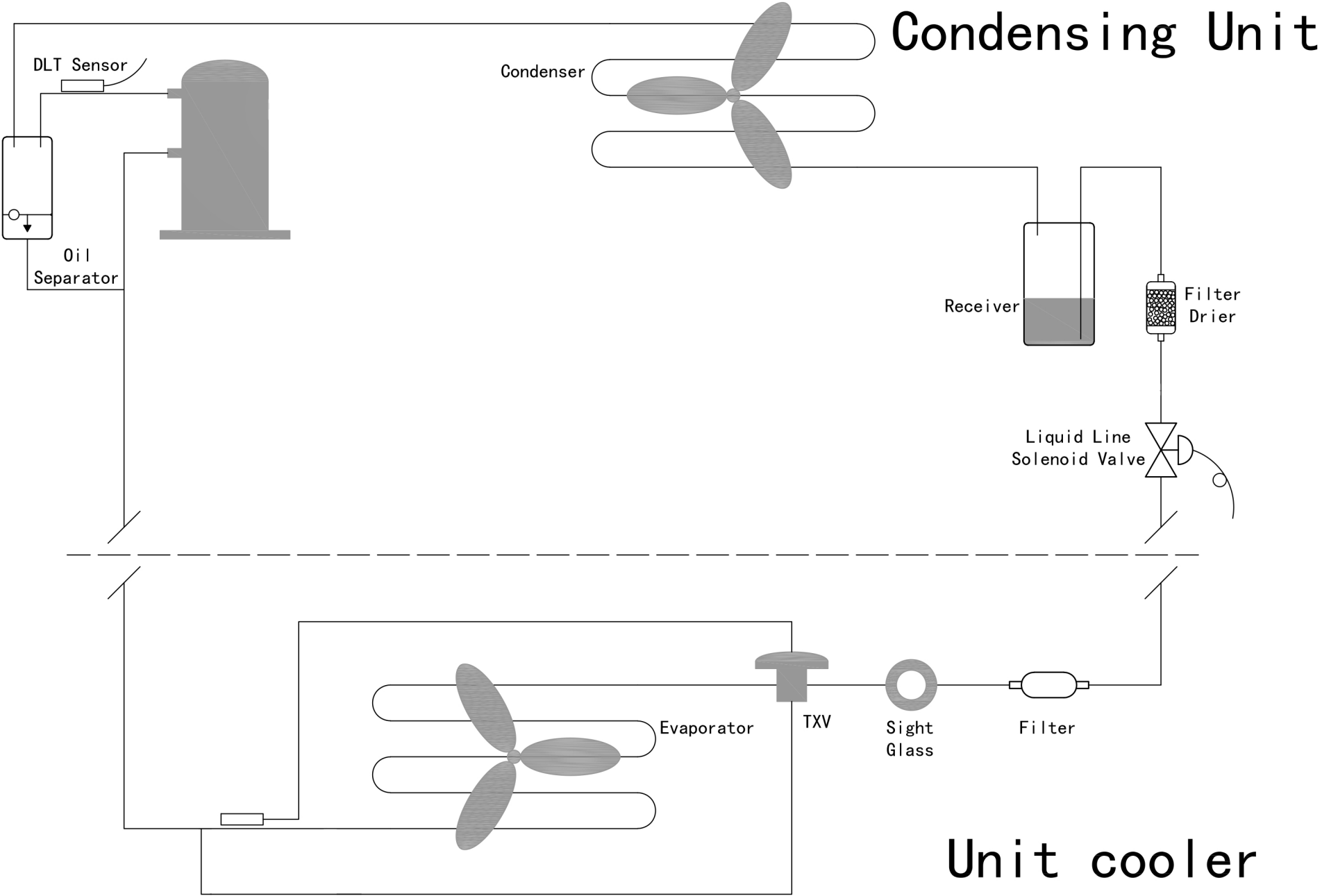
- (1) All tolerances 1.5mm [0.06in] unless otherwise specified
- (2) All fittings: + 3.0mm [0.12in]
- (3) Tube ends must be plugged
- (4) All units are in mm[inch]

MATERIAL :			GEN. TOL. :	
			ANG. TOL. :	
			SCALE : 0,125	
			UNIT: mm	
CODE :		TITLE, DOCUMENT TYPE	REPLACE:	
			V0	
			No.	
DRAWN :		163 (EAF, EWF, EDF)	801-0001-00	
APP.:				
ECM :	DATE :	THIS MATERIAL IS CONFIDENTIAL AND PROPRIETARY TO EMBRACO, AND MAY NOT BE REPRODUCED, DISCLOSED, DISTRIBUTED OR USED WITHOUT PERMISSION	SHEET NUMBER: 1 OF 1	



- 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	Part Name	Description	Qty	Type	Picture
020-0001-00		Terminal Seal		1	Standard	
019-0002-00	11.1*29.5	Sleeve Spacer		4	Standard	
200-0001-00		Rubber		4	Standard	

Accessories List

100-0006-00	M5x8,GB/T5789	Bolt		4	Standard	
017-0000-00	IP21	Terminal Cover		1	Standard	
016-0001-00		T-Box		1	Standard	
034-0001-03		Sound Jacket		1	Optional	

Accessories List

028-0001-00	OD:165, 70W, 220V, L:518.1	Crank Heater		1	Optional	
031-0019-00	1"-14UN 2A	RotaLock Connector		1	Optional	
031-0017-00	1-1/4"-12UNF-A	RotaLock Connector		1	Optional	