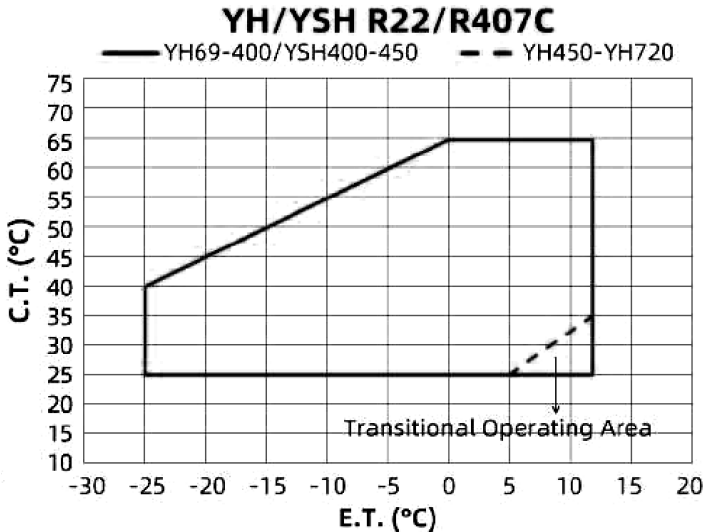


Basic Specification	
Model	YH292C1-100
Type	Scroll Compressor
Application	Air conditioning
Normal Power (HP)	10 HP
Capacity (BTU/Hr)	121550
Refrigerant	R410A
Displacement (M³/H)	22.4
Evaporating Temperature (°F)	45.0
Condensing Temperature (°F)	129.9
Liquid subcooling (°F)	14.9
Suction Superheat (°F)	20.0
Power Input (W)	10959
COP	11.01
Current (A)	16.89

Mechanical and Physical Data	
Length/Width/Height (mm)	260/244/508
Weight (kg)	54
Stub Suction (inch)	1 1/8
Stub Discharge (inch)	7/8
Base mounting (hole dia)	190X190(8.5)
Oil type	POE
Initial charge of oil quantity (L)	3.0
Recharge of oil quantity (L)	2.8
High Side PS Max., (MPa)	4.3
Low Side PS Max., (MPa)	2.0

Electrical Data	
Electricity	460V/60Hz/3P
Standard Conditions	7.2/54.4/11.1/8.3
Normal Power (HP)	10
Normal Capacity (W)	35040
Normal Power input(W)	10884
Normal COP (W/W)	3.22
Normal Current(A)	15.8
Locked Rotor Current(A)	121
Maximum operating current(A)	23.6

Compressor Operating Envelope



Suction Superheat: 20.0

Liquid subcooling: 14.9

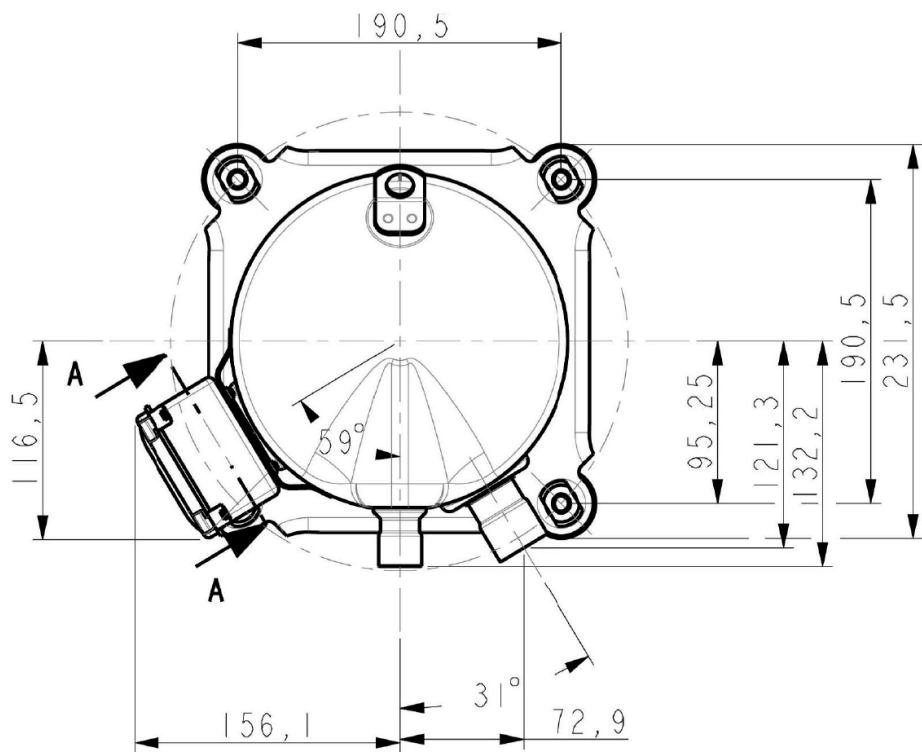
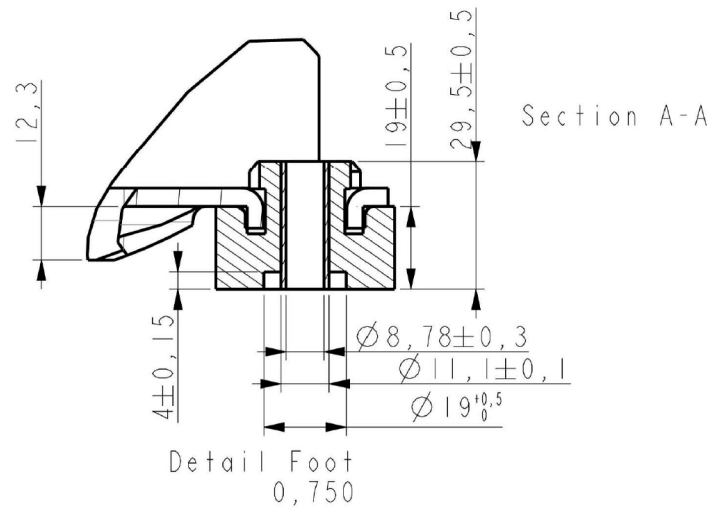
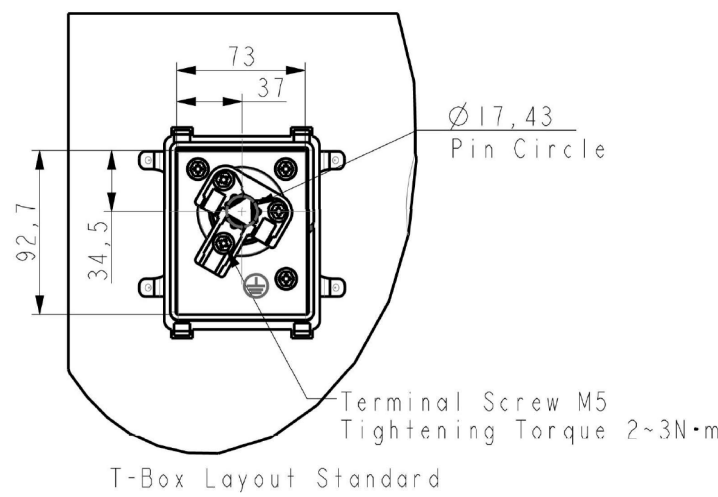
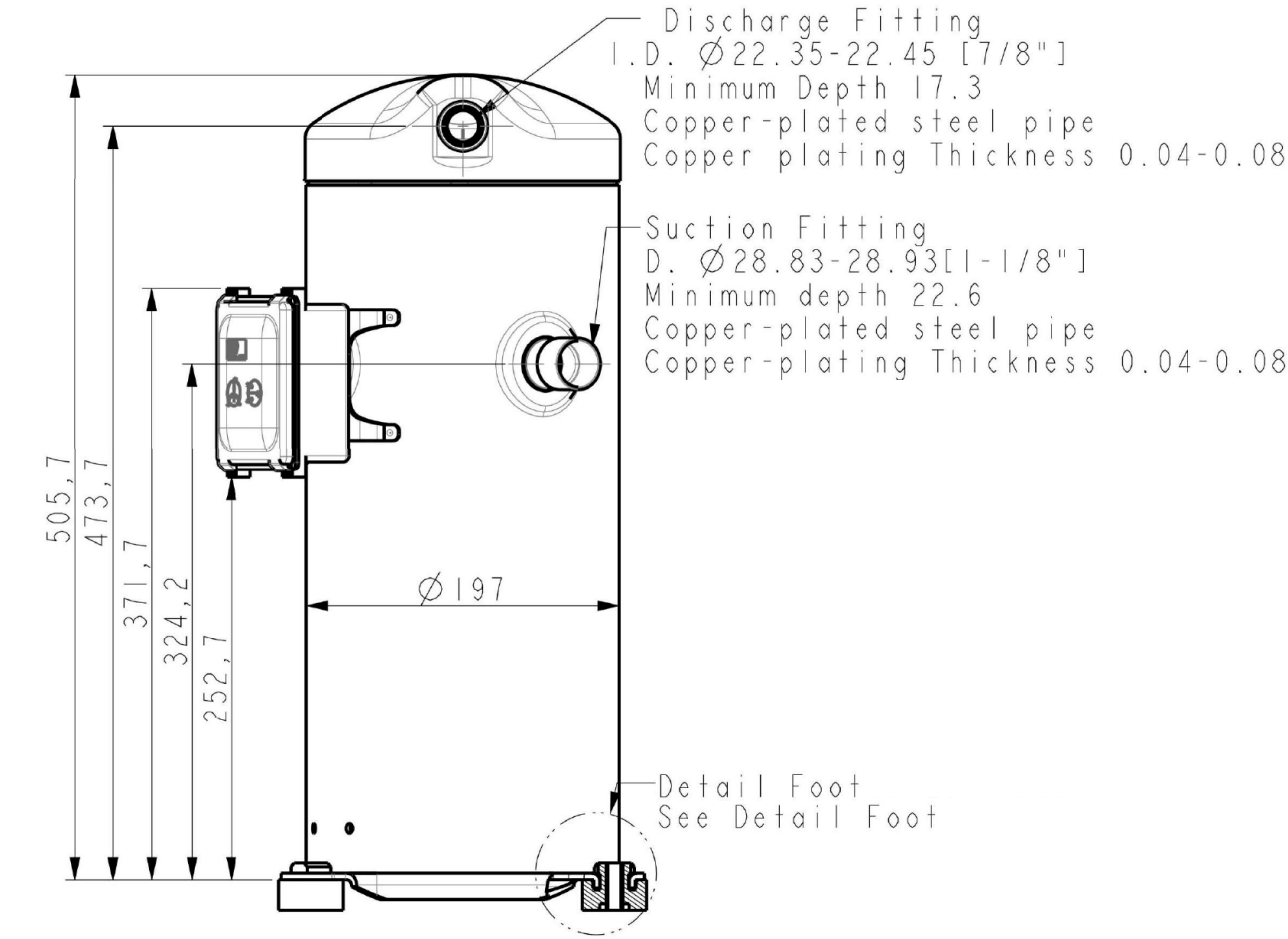
Capacity (BTU/h)								
Tc/Te	-13	0	10	20	30	40	50	54
100	38182	56965	72470	89853	110037	133841	162221	175028
110		52628	67723	84389	103514	125952	152658	164714
120			62498	78515	96684	117892	143028	154366
130				71787	89136	109183	132885	143540
140					80359	99348	121683	131723
149						89204	110413	119907
77	47676	67177	84048	103548	126567	153888	186571	201291
80	46310	65674	82374	101533	124142	150985	183054	197534
90	42143	61166	77217	95420	116765	142037	172227	185820

Power Input (W)								
Tc/Te	-13	0	10	20	30	40	50	54
100	7925	7794	7682	7580	7505	7474	7506	7540
110		8899	8759	8627	8518	8451	8443	8461
120			10014	9855	9717	9617	9574	9576
130				11310	11146	11018	10942	10931
140					12860	12706	12603	12580
149						14510	14385	14352
77	5678	5639	5605	5588	5604	5672	5810	5888
80	5957	5905	5859	5830	5833	5887	6009	6081
90	6905	6811	6731	6663	6625	6635	6710	6762

Current (A)								
Tc/Te	-13	0	10	20	30	40	50	54
100	13.36	13.25	13.02	12.74	12.46	12.26	12.19	12.21
110		14.58	14.4	14.12	13.83	13.58	13.44	13.42
120			15.86	15.67	15.43	15.21	15.06	15.03
130				17.22	17.1	16.96	16.87	16.87
140					18.68	18.7	18.74	18.78
149						20.11	20.32	20.42
77	11.12	11.13	11.06	11.01	11.03	11.18	11.54	11.75
80	11.32	11.28	11.17	11.07	11.03	11.12	11.4	11.58
90	12.21	12.09	11.89	11.66	1.47	11.38	11.45	11.54

Mass Flow (Kg/h)								
Tc/Te	-13	0	10	20	30	40	50	54
100	222.72	334.19	418.17	508.27	612.05	736.29	888.66	958.92
110		330.57	417.95	509.72	613.42	735.85	884.67	953.01
120			413.76	509.1	614.64	737.17	884.35	951.55
130				499.94	609.23	733.77	881.22	948.04
140					590.68	719.14	868.77	935.98
149						691.02	844.26	912.47
77	250.72	355.46	438.87	532.41	643.62	779.29	947.12	1024.66
80	244.83	349.71	432.61	525.13	634.79	768.4	933.63	1009.99
90	231.48	338.41	420.9	511.25	617.02	744.99	902.84	975.77

Drawings
Outline Drawing



ALL TOLERANCES UNLESS OTHERWISE SPECIFIED: ±2
TUBE ENDS MUST BE PLUGGED

Application
» See Details in the YH serial air-condition scroll compressor application manual