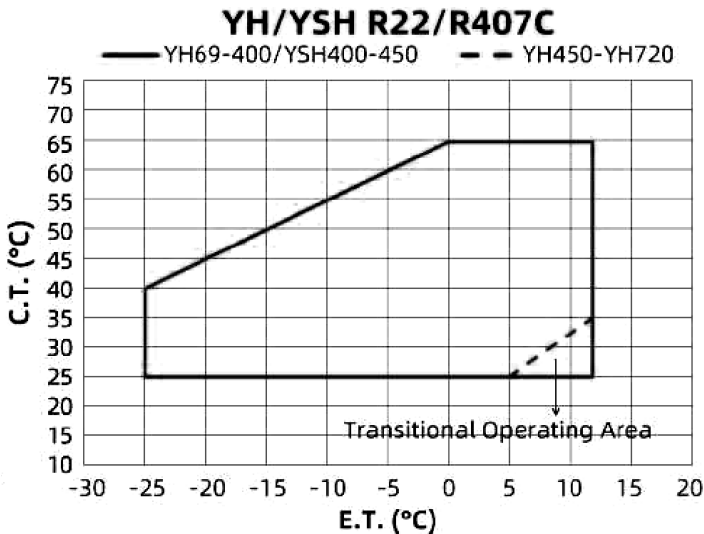


Basic Specification	
Model	YH150C1-100
Type	Scroll Compressor
Application	Air conditioning
Normal Power (HP)	5 HP
Capacity (BTU/Hr)	62440
Refrigerant	R410A
Displacement (M³/H)	12.4
Evaporating Temperature (°F)	45.0
Condensing Temperature (°F)	129.9
Liquid subcooling (°F)	14.9
Suction Superheat (°F)	20.0
Power Input (W)	5896
COP	10.56
Current (A)	9.04

Mechanical and Physical Data	
Length/Width/Height (mm)	239/239/418
Weight (kg)	31
Stub Suction (inch)	7/8
Stub Discharge (inch)	1/2
Base mounting (hole dia)	190X190(8.5)
Oil type	POE
Initial charge of oil quantity (L)	1.4
Recharge of oil quantity (L)	1.25
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)	5
Normal Capacity (W)	18000
Normal Power input(W)	5825
Normal COP (W/W)	3.09
Normal Current(A)	8.6
Locked Rotor Current(A)	60
Maximum operating current(A)	13

Compressor Operating Envelope



Suction Superheat: 20.0

Liquid subcooling: 14.9

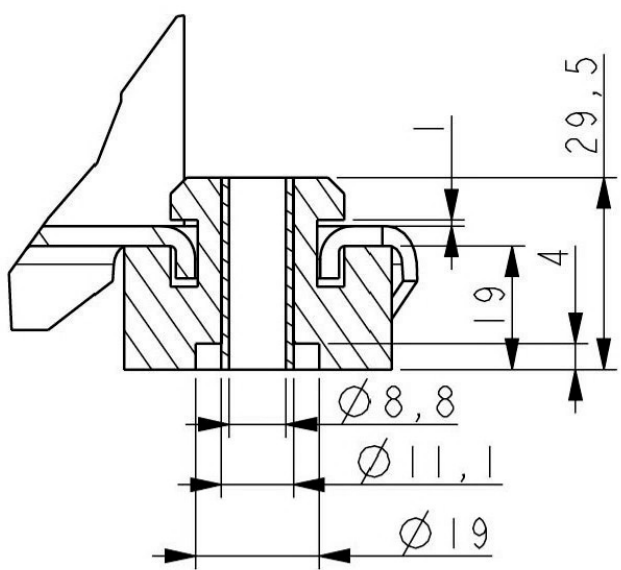
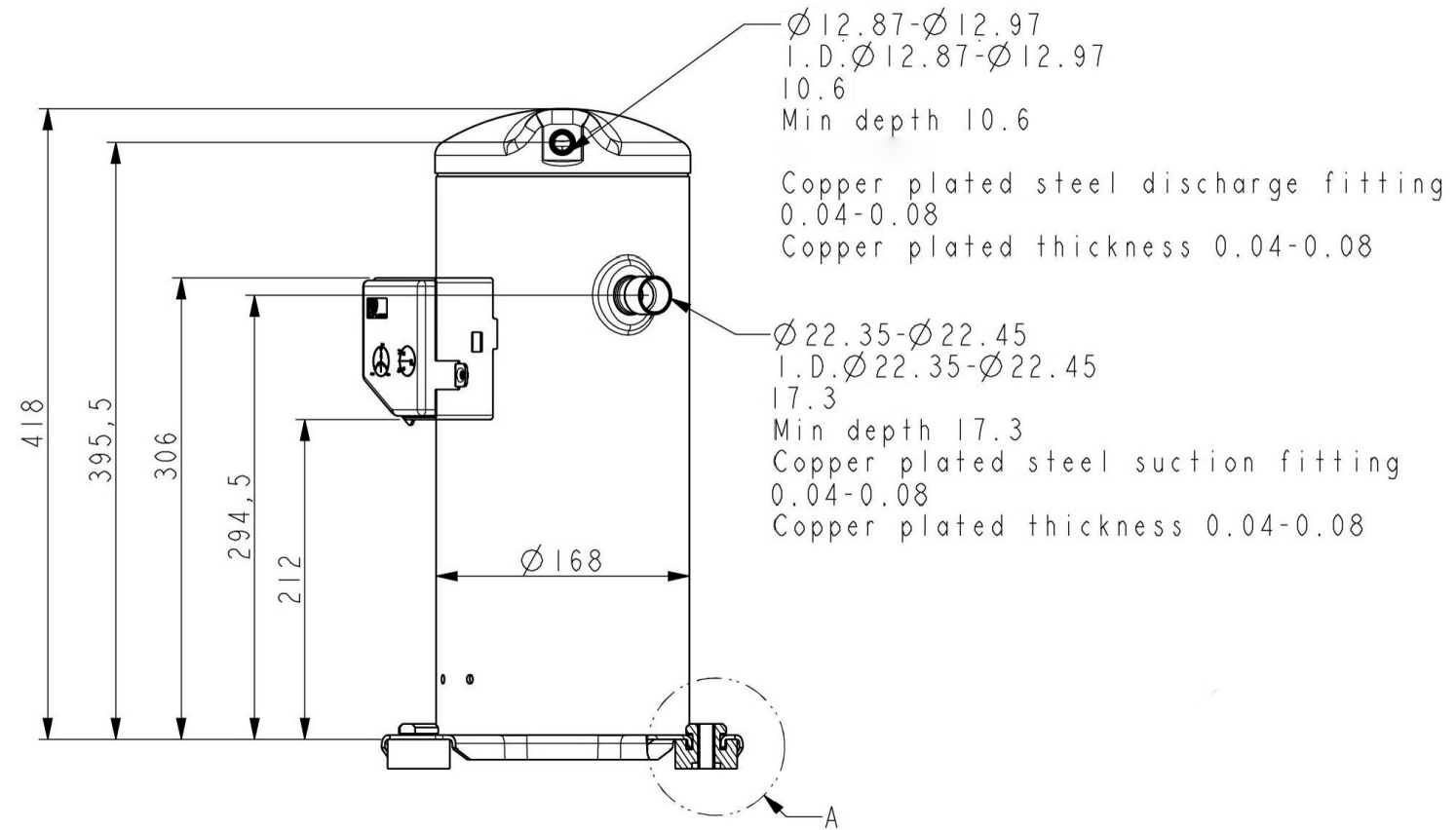
Capacity (BTU/h)								
Tc/Te	-13	0	10	20	30	40	50	54
100	19706	29405	37430	46378	56794	69089	83774	90366
110		27185	34971	43578	53448	65025	78822	85038
120			32273	40538	49930	60858	73836	79710
130				37055	46037	56385	68611	74109
140					41494	51296	62839	67996
149						46037	56999	61917
77	24623	34664	43407	53448	65332	79471	96308	103924
80	23906	33913	42519	52423	64103	77969	94498	101977
90	21755	31590	39855	49281	60278	73324	88931	95932

Power Input (W)								
Tc/Te	-13	0	10	20	30	40	50	54
100	4264	4193	4133	4078	4038	4021	4038	4057
110		4787	4712	4641	4583	4547	4542	4552
120			5388	5302	5228	5174	5151	5152
130				6085	5997	5928	5887	5881
140					6919	6836	6781	6768
149						7806	7739	n21
77	3055	3034	3016	3006	3015	3052	3126	3168
80	3205	31n	3152	3136	3138	3167	3233	3272
90	3715	3664	3621	3585	3564	3570	3610	3638

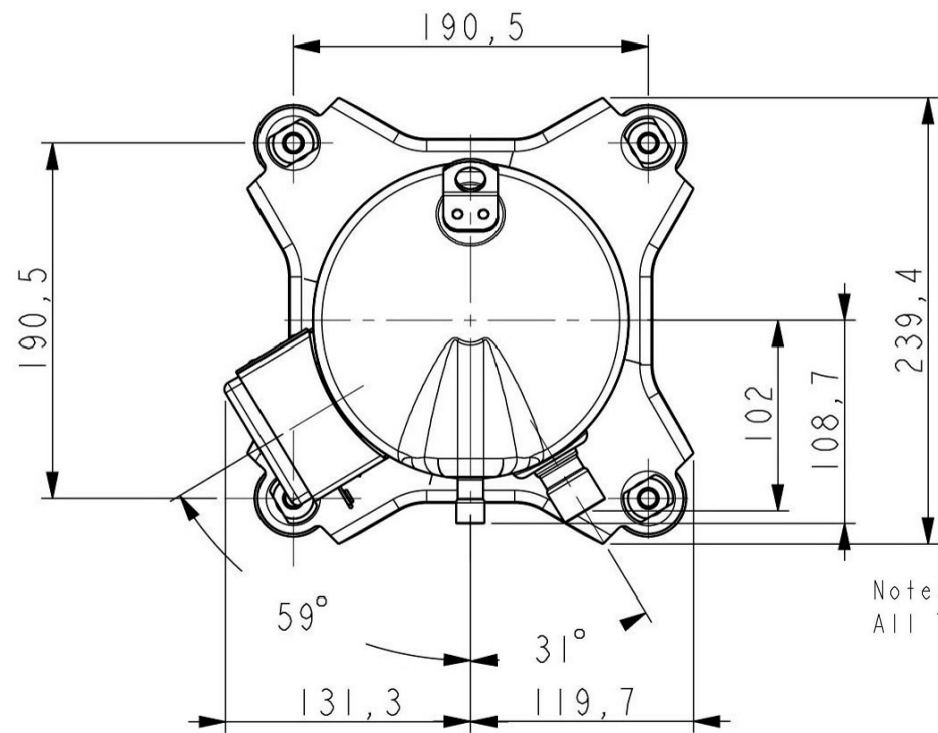
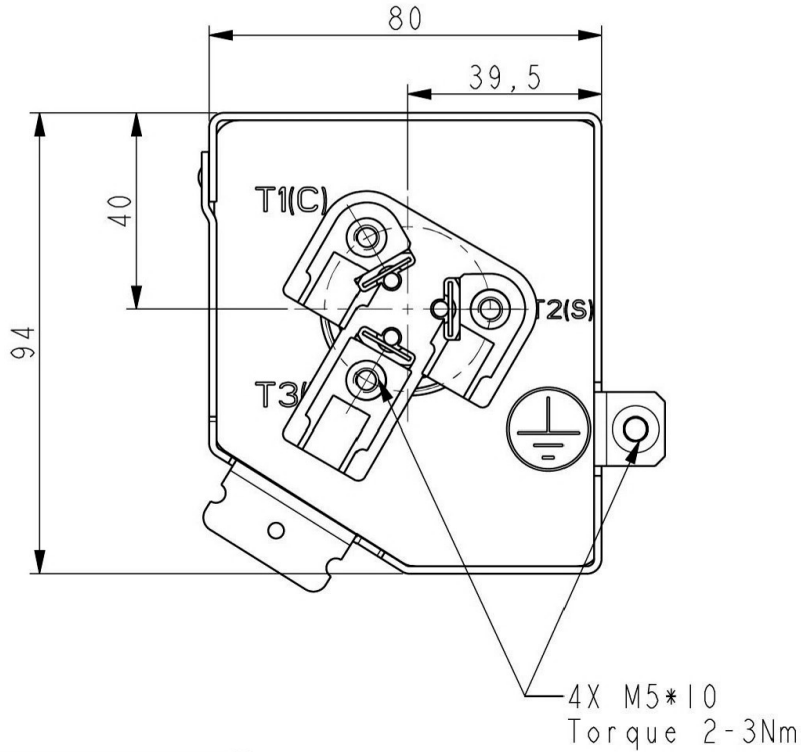
Current (A)								
Tc/Te	-13	0	10	20	30	40	50	54
100	7.15	7.09	6.97	6.82	6.67	6.56	6.52	6.54
110		7.81	7.71	7.56	7.4	7.27	7.19	7.19
120			8.49	8.39	Sc.26	8.14	8.06	8.05
130				9.22	9.15	9.08	9.03	9.03
140					10	10.01	10.03	10.05
149						10.76	10.88	10.93
77	5.95	5.96	5.92	5.89	5.9	5.99	6.18	6.29
80	6.06	6.04	5.98	5.93	5.9	5.95	6.1	6.2
90	6.54	6.47	6.37	6.24	6.14	6.09	6.13	6.18

Mass Flow (Kg/h)								
Tc"Te	-13	0	10	20	30	40	50	54
100	114.98	172.54	215.89	262.41	315.99	380.13	458.8	495.07
110		170.67	215.78	263.16	316.7	379.91	456.74	492.02
120			213.61	262.84	317.33	380.59	456.57	491.27
130				258.11	314.54	378.83	454.96	489.45
140					304.96	371.28	448.53	483.23
149						356.76	435.88	471.09
77	129.44	183.52	226.58	274.87	332.29	402.33	488.98	529.01
80	126.4	180.55	223.35	271.11	327.73	396.71	482.02	521.44
90	119.51	1174.72	217.3	263.95	318.55	384.62	466.12	503.77

Drawings
Outline Drawing



Detail A: Compressor Foot



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

Notes:
All Tolerance unless other specified ± 2

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