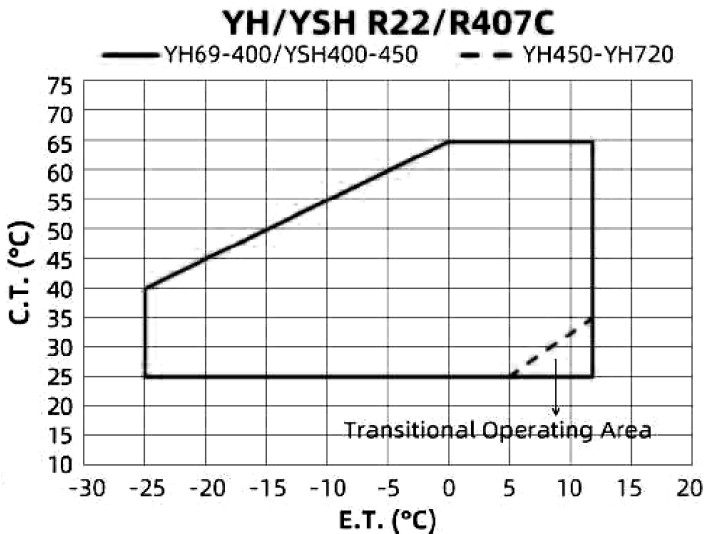


Basic Specification	
Model	YH200A7-100
Type	Scroll Compressor
Application	Air conditioning
Normal Power (HP)	7 HP
Capacity (BTU/Hr)	82362
Refrigerant	R22
Displacement (M³/H)	22.6
Evaporating Temperature (°F)	45.0
Condensing Temperature (°F)	129.9
Liquid subcooling (°F)	14.9
Suction Superheat (°F)	20.0
Power Input (W)	7106
COP	11.63
Current (A)	22.25

Mechanical and Physical Data	
Length/Width/Height (mm)	239/239/463
Weight (kg)	38
Stub Suction (inch)	7/8
Stub Discharge (inch)	1/2
Base mounting (hole dia)	190X190(8.5)
Oil type	3GS
Initial charge of oil quantity (L)	1.6
Recharge of oil quantity (L)	1.45
High Side PS Max., (MPa)	3.0
Low Side PS Max., (MPa)	2.0

Electrical Data	
Electricity	220V/60Hz/3P
Standard Conditions	7.2/54.4/11.1/8.3
Normal Power (HP)	7
Normal Capacity (W)	24400
Normal Power input(W)	7115
Normal COP (W/W)	3.43
Normal Current(A)	23.6
Locked Rotor Current(A)	180
Maximum operating current(A)	32.4

Compressor Operating Envelope



Suction Superheat: 20.0

Liquid subcooling: 14.9

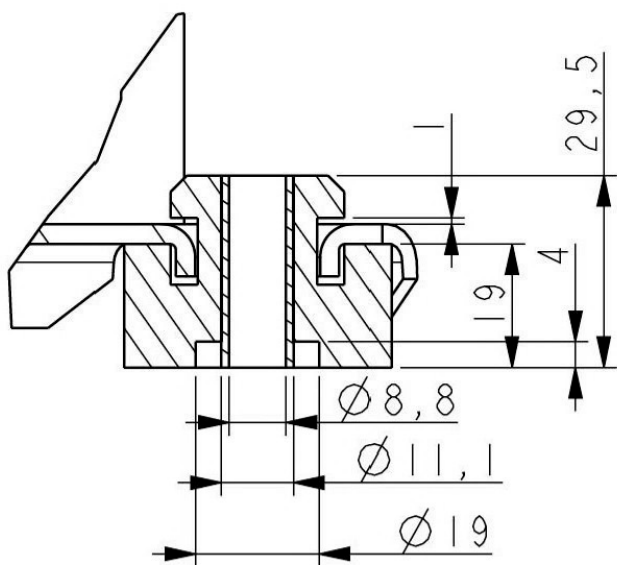
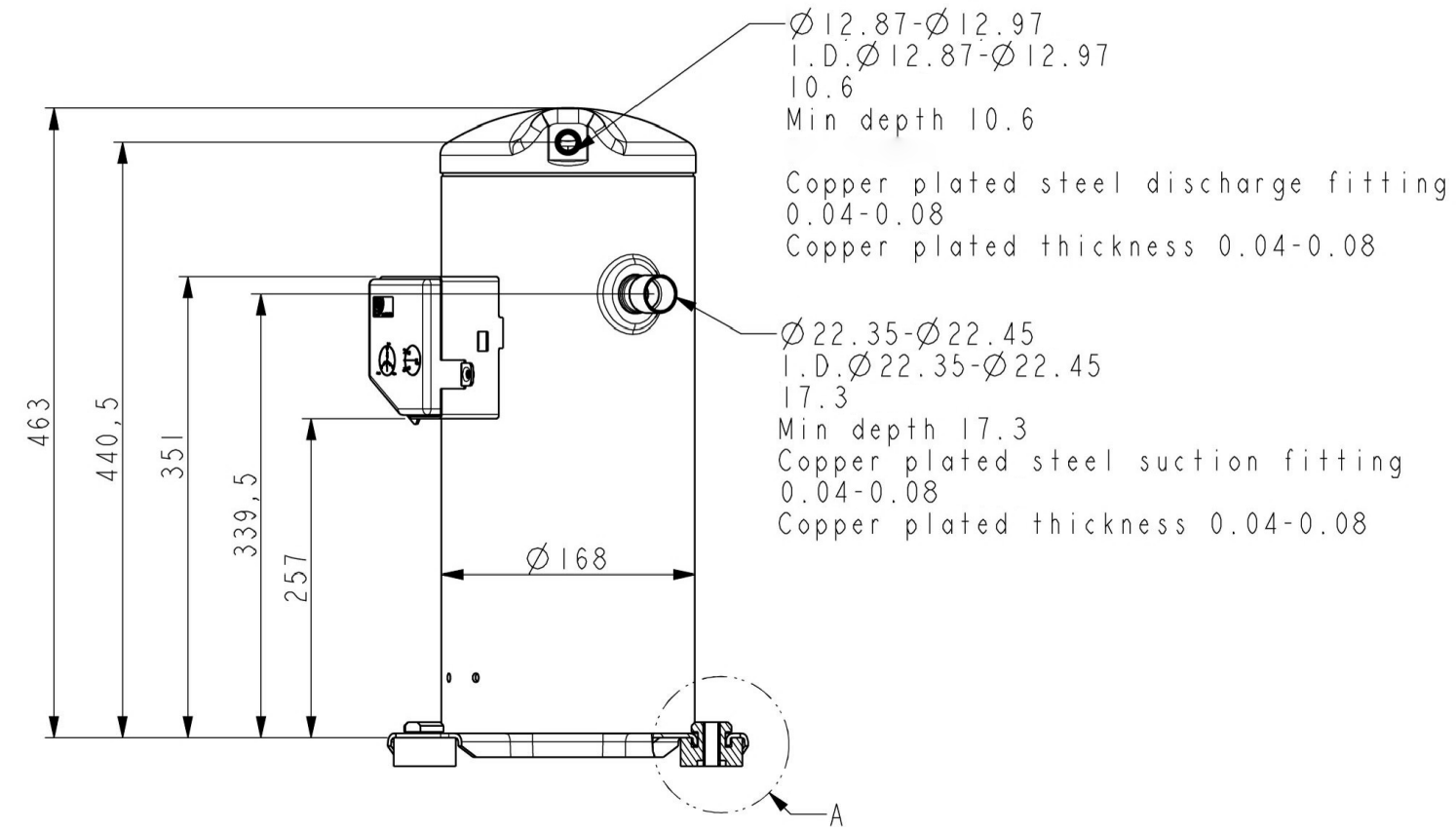
Capacity (BTU/h)								
Tc/Te	-13	0	10	20	30	40	50	54
100	25477	36577	46822	58673	72436	88248	106383	114306
110		34323	44124	55531	68782	84013	101533	109183
120			41358	52252	64923	79540	96342	103719
130				48803	60858	74792	90912	97981
140					56590	69840	85175	91902
149						65162	79744	86199
77	29644	41597	52594	65367	80154	97128	116526	124996
80	29097	40948	51877	64513	79198	96035	115296	123698
90	27287	38796	49383	61678	75919	92244	110993	119156

Power Input (W)								
Tc/Te	-13	0	10	20	30	40	50	54
100	4584	4789	4888	4955	5007	5061	5133	5171
110		5410	5499	5556	5599	5644	5709	5744
120			6207	6252	6283	6317	6371	6402
130				7060	7077	7097	7137	7163
140					8002	8006	8031	8050
149						8949	8958	8971
77	3400	3624	3736	3815	3878	3941	4021	4062
80	3539	3761	3873	3951	4013	4075	4155	4196
90	4030	4245	4352	4426	4484	4544	4621	4661

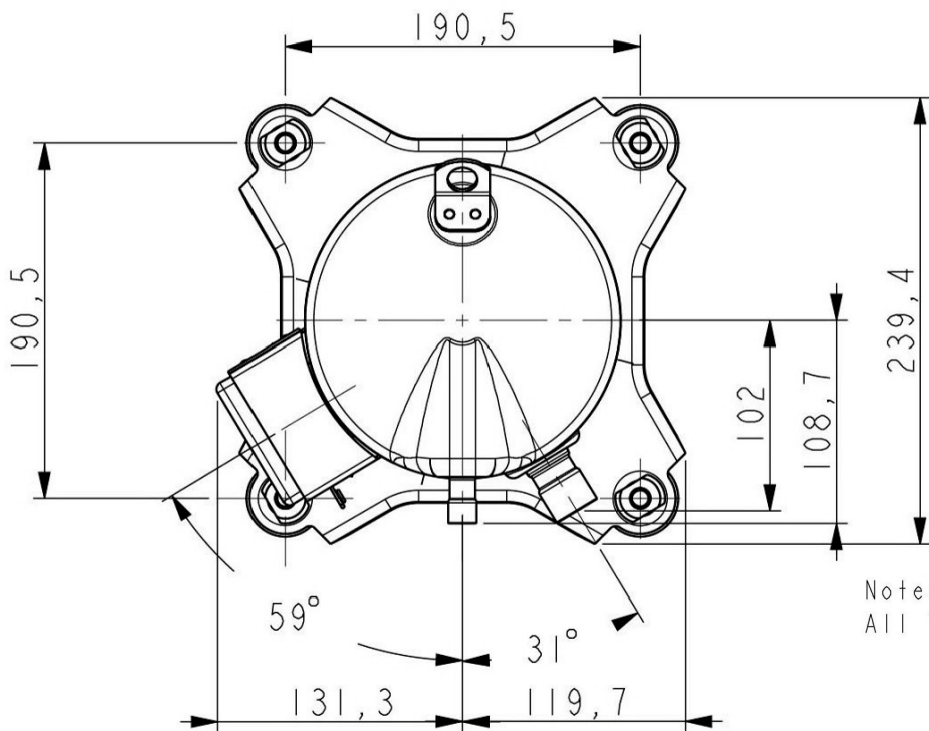
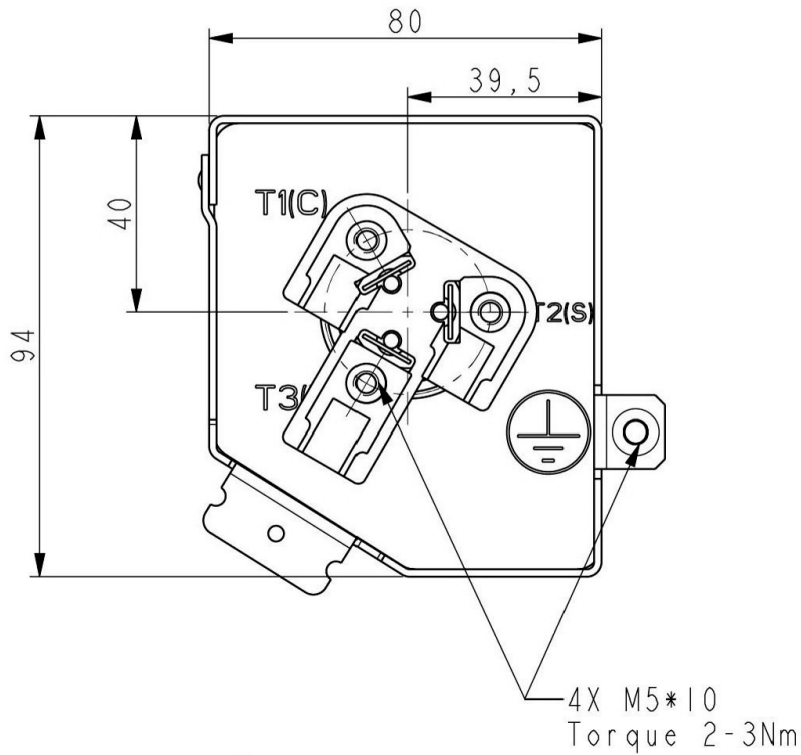
Current (A)								
Tc/Te	-13	0	10	20	30	40	50	54
100	16.22	16.7	16.93	17.09	17.21	17.34	17.51	17.6
110		18.1	18.31	18.46	18.57	18.68	18.83	18.92
120			20	20.12	20.2	20.29	20.42	20.49
130				22.12	22.17	22.23	22.32	22.38
140					24.55	24.56	24.61	24.66
149						27.04	27.05	27.07
77	13.82	14.3	14.53	14.69	14.82	14.96	15.14	15.23
80	14.08	14.57	14.8	14.97	15.1	15.23	15.41	15.51
90	15.05	15.54	15.78	15.94	16.07	16.21	16.39	16.49

Mass Flow (Kg/h)								
Tc"Te	-13	0	10	20	30	40	50	54
100	158.59	226.66	286.36	353.83	430.7	518.1	617.76	661.25
110		222.6	282.1	349.41	426.17	513.51	613.15	656.64
120			277.16	344.11	420.56	507.63	607.04	650.45
130				337.82	413.75	500.34	599.33	642.58
140					405.6	491.52	589.87	632.88
149						482.17	579.77	622.5
77	167.08	234.89	294.29	361.33	437.68	524.46	623.39	666.56
80	165.94	233.87	293.36	360.53	437	523.93	623.01	666.25
90	162.25	230.38	290.08	357.5	434.27	521.54	621.01	664.41

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