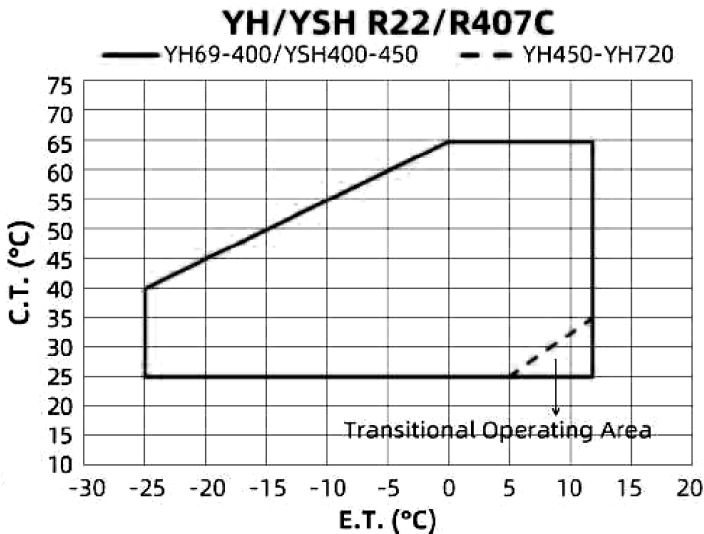


Basic Specification	
Model	YH230T7-100
Type	Scroll Compressor
Application	Air conditioning
Normal Power (HP)	8 HP
Capacity (BTU/Hr)	91527
Refrigerant	R407C
Displacement (M³/H)	25.7
Evaporating Temperature (°F)	45.0
Condensing Temperature (°F)	129.9
Liquid subcooling (°F)	14.9
Suction Superheat (°F)	20.0
Power Input (W)	8161
COP	11.22
Current (A)	25.58

Mechanical and Physical Data	
Length/Width/Height (mm)	260/244/508
Weight (kg)	53
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)	2.7
Recharge of oil quantity (L)	2.6
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)	8
Normal Capacity (W)	27060
Normal Power input(W)	8162
Normal COP (W/W)	3.3
Normal Current(A)	26.9
Locked Rotor Current(A)	241
Maximum operating current(A)	36.78

Compressor Operating Envelope



Suction Superheat: 20.0

Liquid subcooling: 14.9

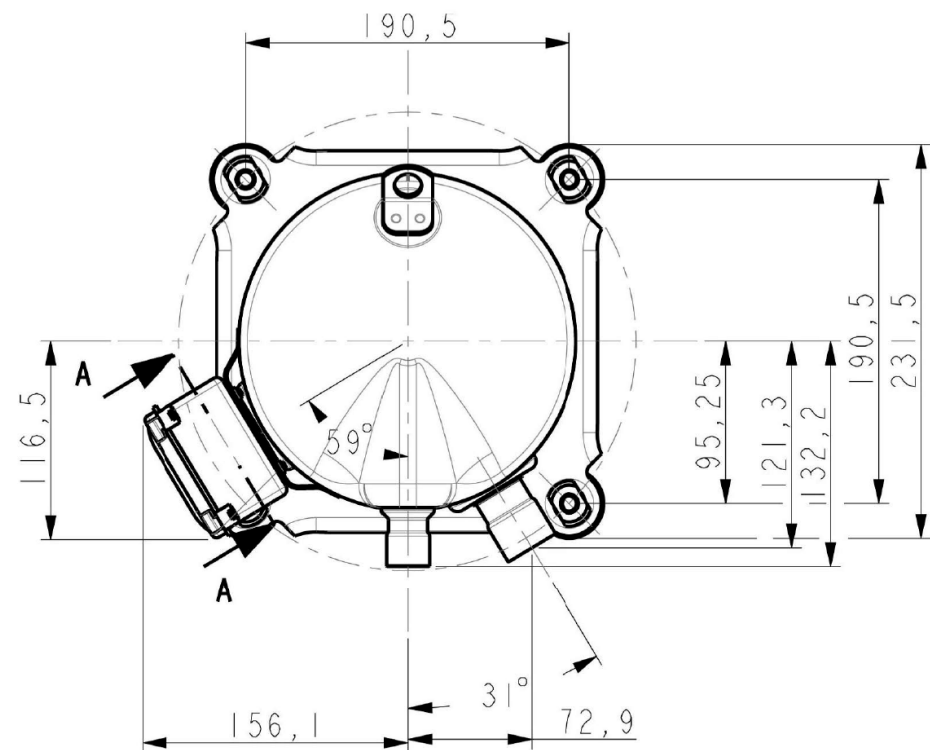
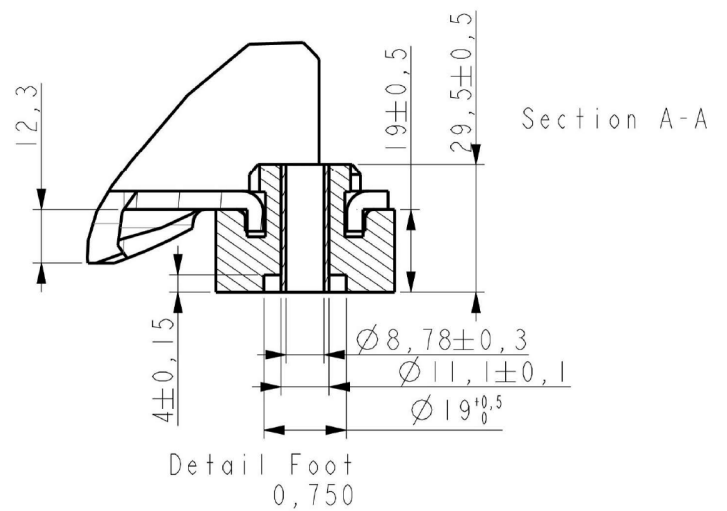
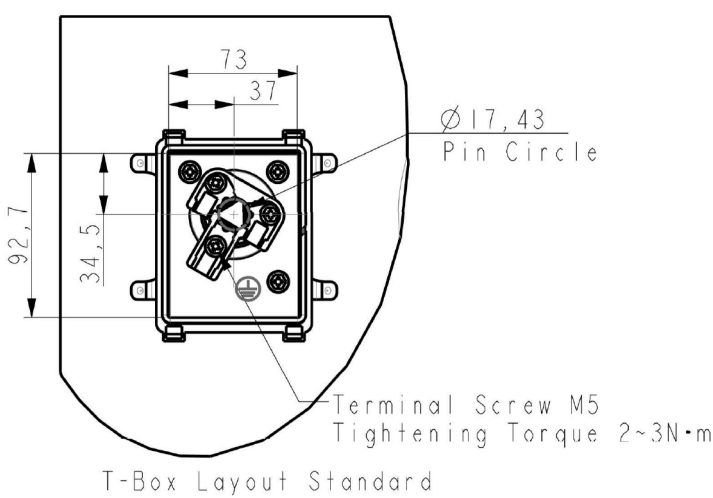
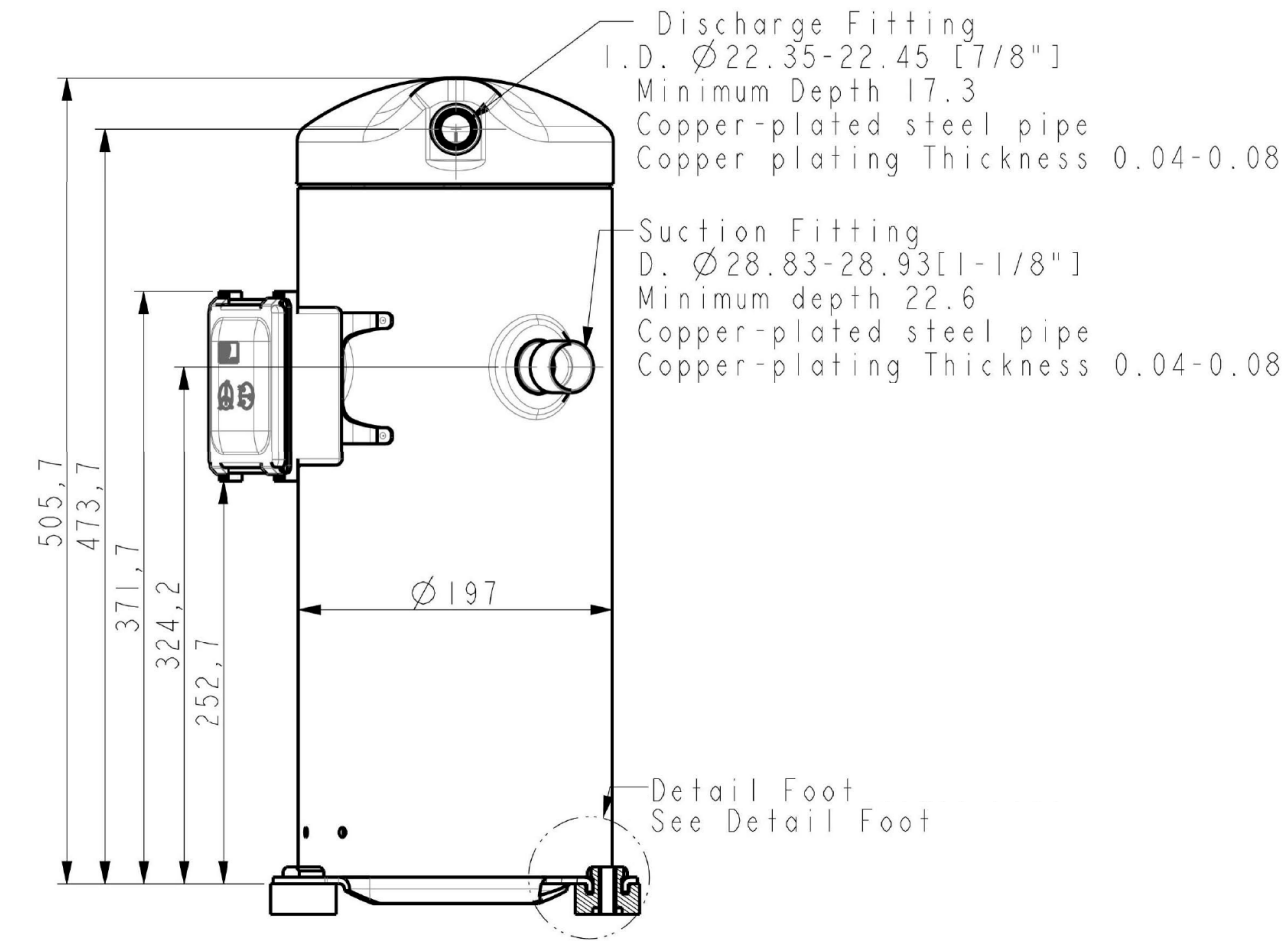
Capacity (BTU/h)								
Tc/Te	-13	0	10	20	30	40	50	54
100	28209	40538	51842	64991	80223	97742	117858	126635
110		38045	48905	61507	76193	93064	112462	120931
120			45832	57853	71890	88077	106724	114887
130				54062	67416	82852	100714	108534
140					62703	77354	94327	101806
149						72163	88351	95488
77	32854	46071	58263	72402	88795	107578	129094	138486
80	32239	45354	57443	71480	87736	106383	127694	137017
90	30224	42963	54711	68304	84082	102182	122946	131997

Power Input (W)								
Tc/Te	-13	0	10	20	30	40	50	54
100	5265	5500	5614	5691	5751	5812	5895	5938
110		6213	6316	6382	6431	6483	6557	6597
120			7129	7181	7216	7255	7317	7353
130				8108	8127	8151	8197	8227
140					9190	9195	9223	9246
149						10278	10288	10303
77	3905	4162	4291	4382	4454	4526	4618	4665
80	4064	4320	4448	4538	4609	4681	4773	4819
90	4629	4876	4998	5083	5150	5218	5307	5353

Current (A)								
Tc/Te	-13	0	10	20	30	40	50	54
100	18.65	19.2	19.46	19.65	19.79	19.94	20.13	20.24
110		20.8	21.05	21.22	21.35	21.47	21.65	21.75
120			22.99	23.13	23.22	23.33	23.47	23.56
130				25.43	25.49	25.55	25.66	25.73
140					28.22	28.23	28.3	28.34
149						31.09	31.1	31.13
77	15.89	16.44	16.71	16.89	17.04	17.19	17.4	17.51
80	16.19	16.75	17.02	17.21	17.35	17.51	17.72	17.83
90	17.31	17.86	18.14	18.33	18.48	18.64	18.84	18.95

Mass Flow (Kg/h)								
Tc/Te	-13	0	10	20	30	40	50	54
100	169.54	248.02	316.86	394.64	483.27	584.04	698.94	749.08
110		243.34	311.95	389.55	478.05	578.75	693.63	743.77
120			306.25	383.44	471.58	571.96	686.58	736.64
130				376.19	463.73	563.57	677.69	727.56
140					454.33	553.39	666.78	716.38
149						542.61	655.15	704.41
77	179.33	257.52	325.99	403.29	491.32	591.38	705.43	755.21
80	178.01	256.34	324.93	402.36	490.54	590.76	705	754.85
90	173.76	252.31	321.14	398.87	487.39	588	702.69	752.73

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