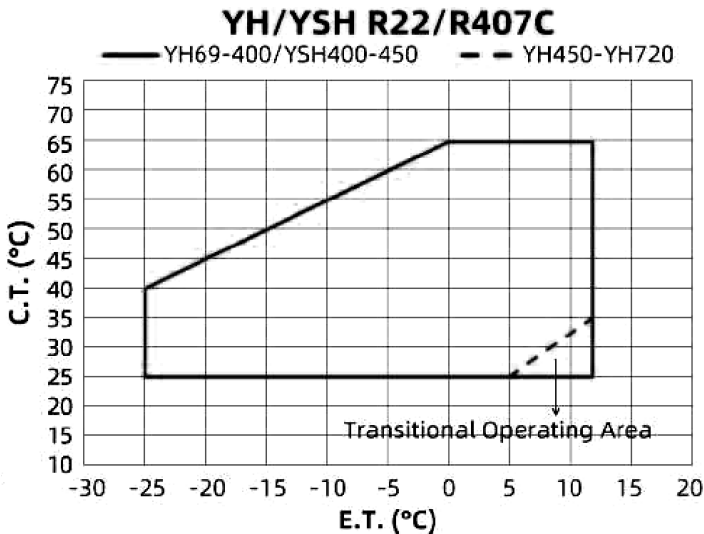


Basic Specification	
Model	YH230C1-100
Type	Scroll Compressor
Application	Air conditioning
Normal Power (HP)	8 HP
Capacity (BTU/Hr)	95742
Refrigerant	R410A
Displacement (M³/H)	19
Evaporating Temperature (°F)	45.0
Condensing Temperature (°F)	129.9
Liquid subcooling (°F)	14.9
Suction Superheat (°F)	20.0
Power Input (W)	8747
COP	10.9
Current (A)	13.43

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)	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)	8
Normal Capacity (W)	27600
Normal Power input(W)	8652
Normal COP (W/W)	3.19
Normal Current(A)	13.4
Locked Rotor Current(A)	117
Maximum operating current(A)	18.3

Compressor Operating Envelope



Suction Superheat: 20.0

Liquid subcooling: 14.9

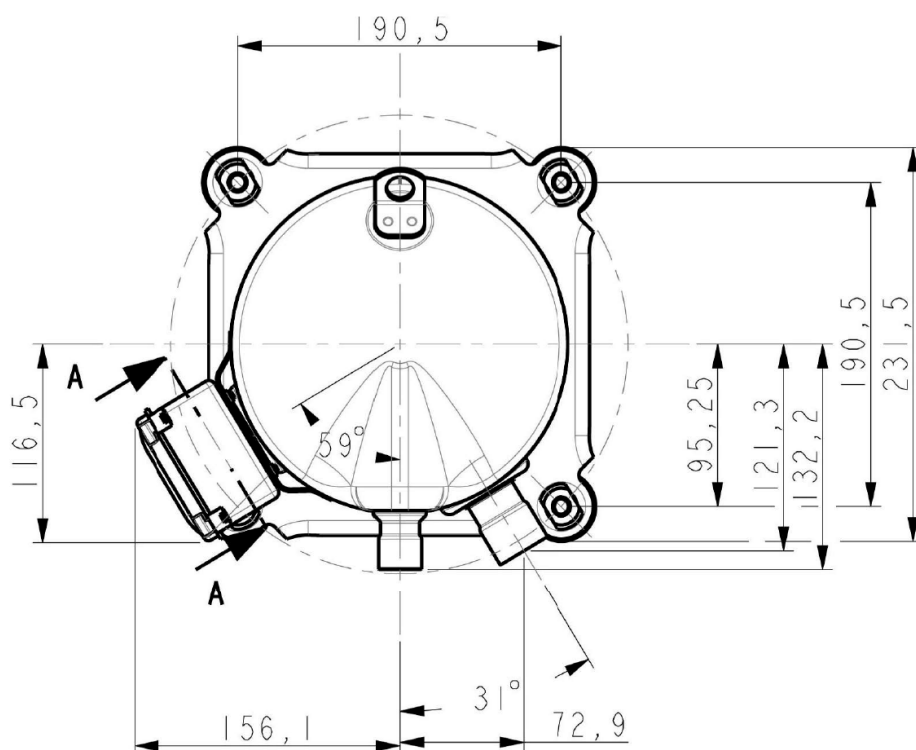
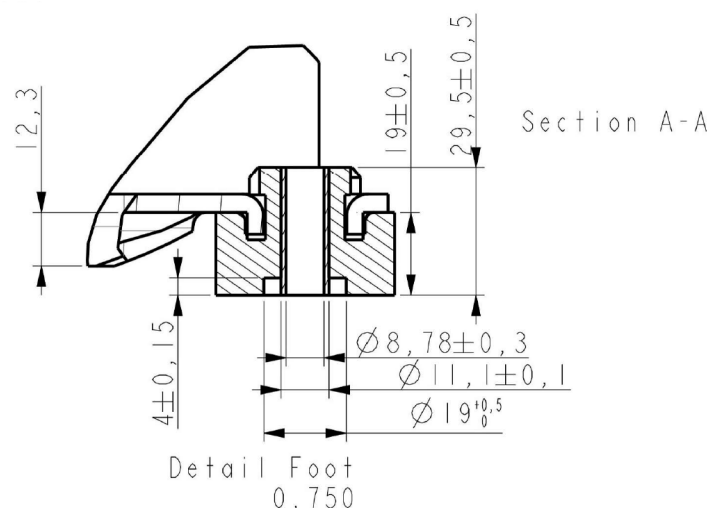
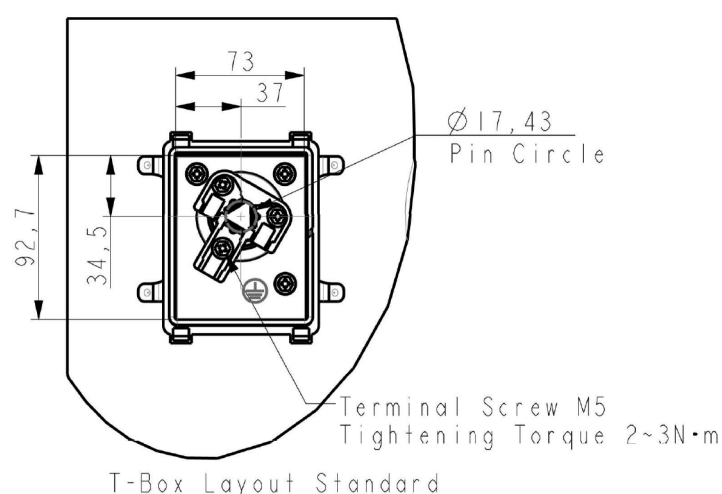
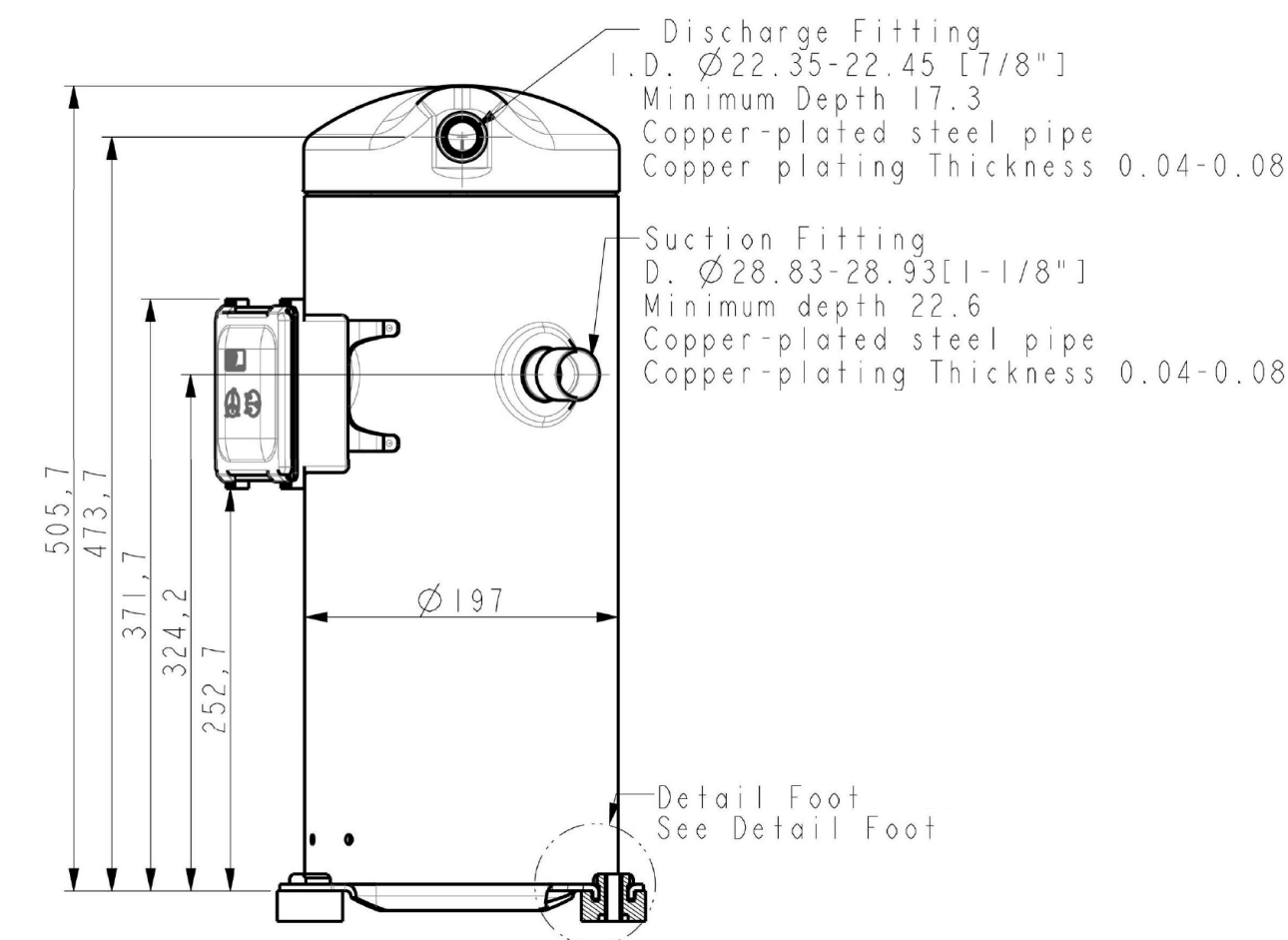
Capacity (BTU/h)								
Tc/Te	-13	0	10	20	30	40	50	54
100	30190	45046	57307	71070	87019	105836	128274	138417
110		41631	53550	66733	81862	99587	120727	130255
120			49418	62088	76466	93200	113111	122058
130				56760	70489	86336	105085	113486
140					63522	78583	96240	104163
149						70523	87292	94805
77	37704	53106	66459	81862	100065	121683	147536	159181
80	36611	51945	65127	80291	98152	119395	144769	156176
90	33332	48359	61063	75441	92346	112325	136197	146955

Power Input (W)								
Tc/Te	-13	0	10	20	30	40	50	54
100	6325	6221	6132	6050	5990	5966	5991	6018
110		7103	6991	688,6	6799	6745	6739	6753
120			7993	7866	7756	7676	7642	7643
130				9028	8896	8794	8734	8725
140					10264	10142	10060	10041
149						11581	11482	11456
77	4532	4501	4474	4460	4473	4528	4637	4699
80	4755	4713	4677	4653	4656	4699	4797	4854
90	5512	5437	5372	5318	5288	5296	5356	5398

Current (A)								
Tc/Te	-13	0	10	20	30	40	50	54
100	10.62	10.53	10.35	10.13	9.91	9.75	9.69	9.71
110		11.59	11.45	11.23	11	10.8	10.69	10.67
120			12.61	12.46	12.27	12.09	11.97	11.95
130				13.69	13.59	13.49	13.42	13.41
140					14.85	14.87	14.9	14.93
149						15.99	16.16	16.24
77	8.84	8.85	8.79	8.75	8.77	8.89	9.17	9.34
80	9	8.97	8.88	8.8	8.77	8.84	9.06	9.2
90	9.71	9.62	9.46	9.27	9.12	9.05	9.1	9.17

Mass Flow (Kg/h)								
Tc/Te	-13	0	10	20	30	40	50	54
100	176.11	264.26	330.66	401.91	483.97	582.22	702.7	758.26
110		261.4	330.49	403.06	485.05	581.87	699.55	753.59
120			327.17	402.57	486.02	582.91	699.29	752.43
130				395.33	481.75	580.22	696.81	749.65
140					467.07	568.65	686.97	740.12
149						546.42	667.59	721.53
77	198.25	281.08	347.03	421	508.94	616.22	748.93	810.24
80	193.6	276.53	342.09	415.24	501.96	607.61	738.26	798.64
90	183.04	267.6	332.82	404.27	487.9	589.1	713.92	771.58

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