



INVOTECH

SCROLL COMPRESSORS

Product Catalogue

50Hz



To become a leading global provider of climate and energy solutions,
Building an energy-saving and low-carbon ecological environment together!

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Company Introduction

Suzhou Invotech Scroll Technologies Co., Ltd. is a high-tech enterprise, specializing in the research and development, manufacturing and sales of scroll compressors.

We offer a wide range of products and solutions for air conditioning, chillers, heat pump water heaters, refrigeration and other applications. Backed by innovations and patents, our solutions are engineered for optimal energy efficiency and reliability. Dedicated to building a low-carbon ecological environment, we develop low GWP refrigerant products to reduce greenhouse gas emissions and advance global environmental sustainability. Our products have been sold to over 40 countries and regions across Asia, Africa, Europe, South America, North America, and beyond.

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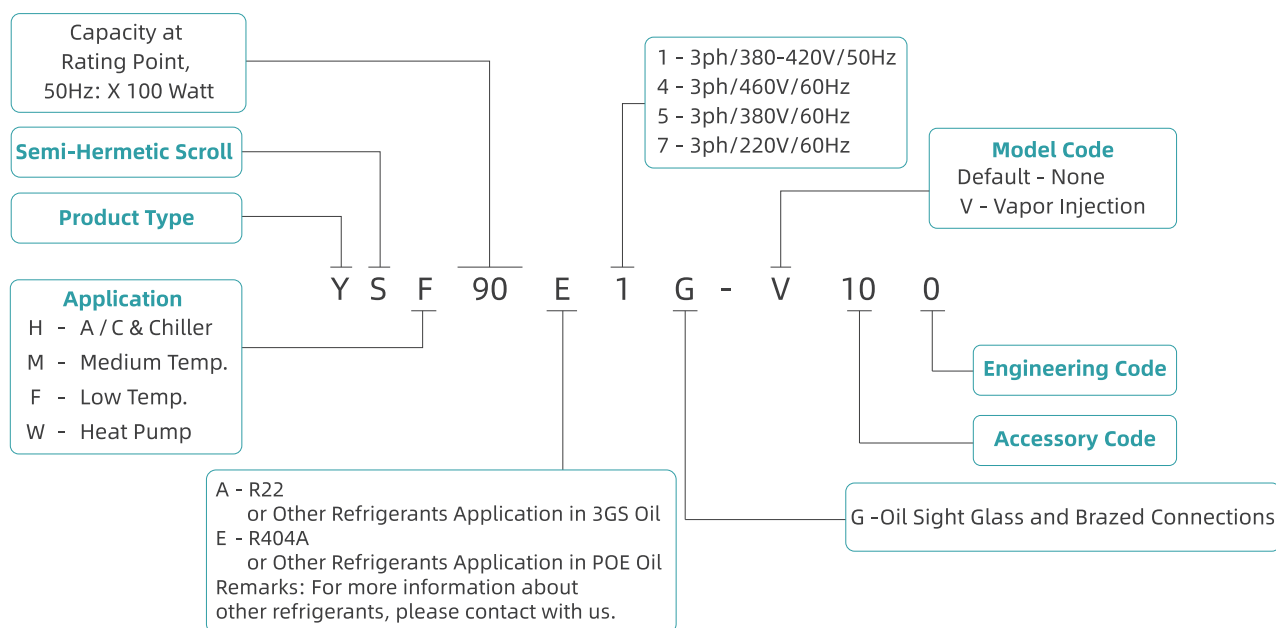
Product Features

- Specific and optimal design for different applications
- Radial and axial compliance design and improved floating seal design for better energy efficiency and reliability
- Build-in high pressure protection
- Motor overload protection through internal or external protector for higher reliability
- Excellent discharge temperature management to extend operating envelope
- Accurate calculation of load and sealing force for running sound optimization
- High efficiency motor design

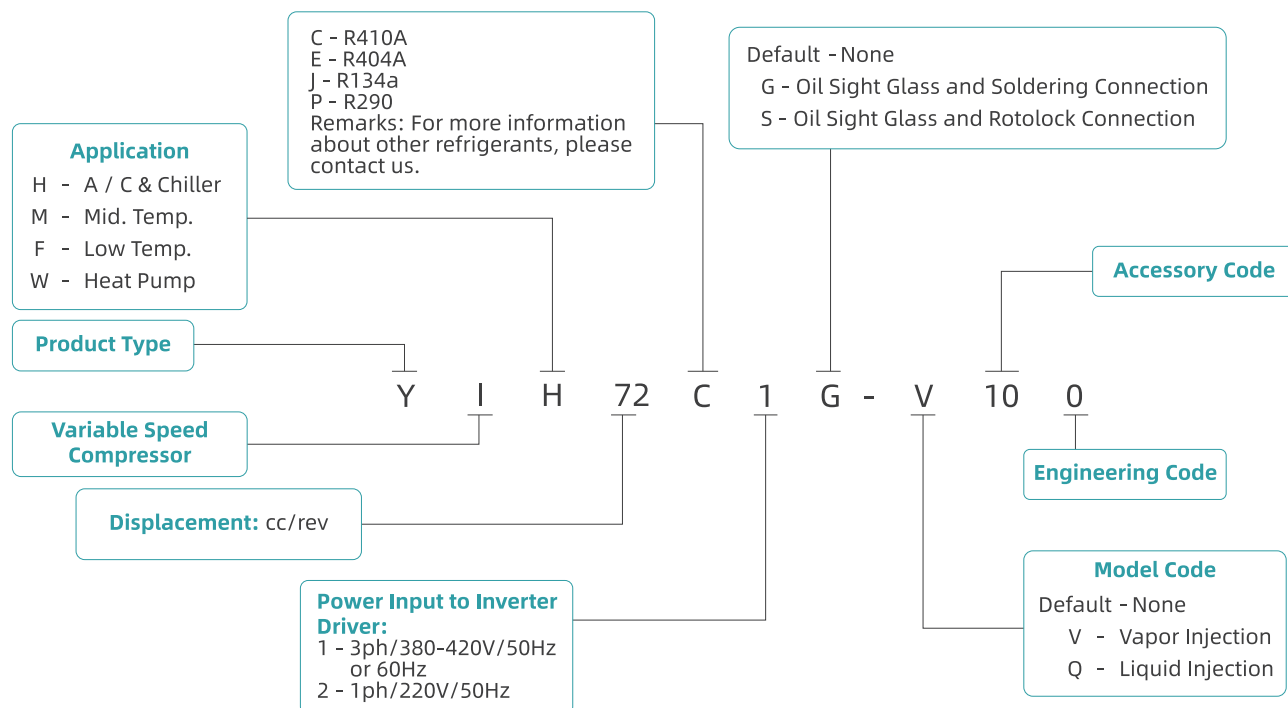


Nomenclature

Semi-hermetic Fixed Speed Scroll Compressor



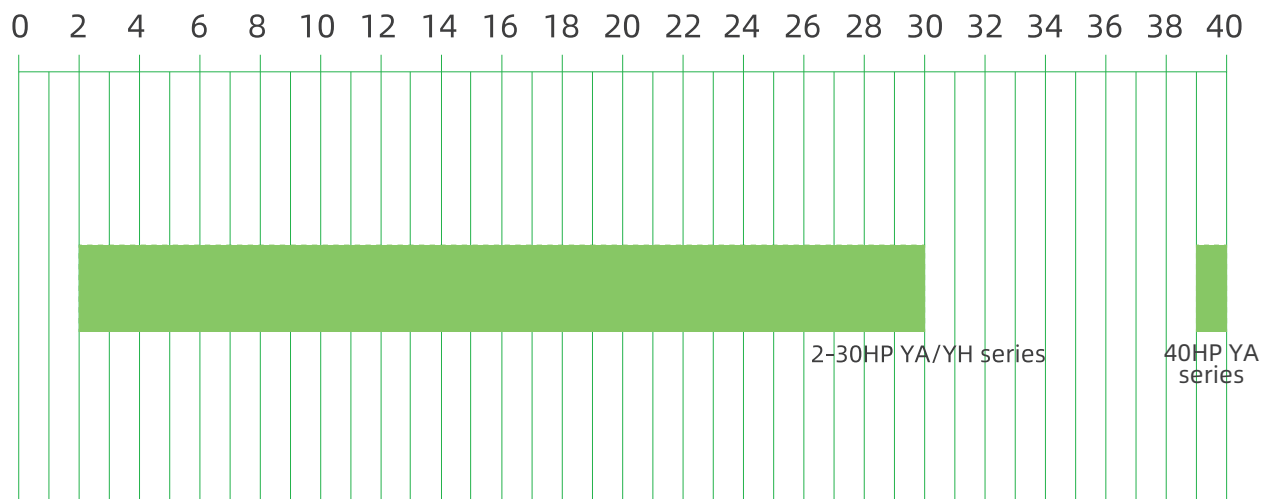
Hermetic Variable Speed Scroll Compressor



SCROLL COMPRESSORS FOR AIR CONDITIONING AND CHILLERS

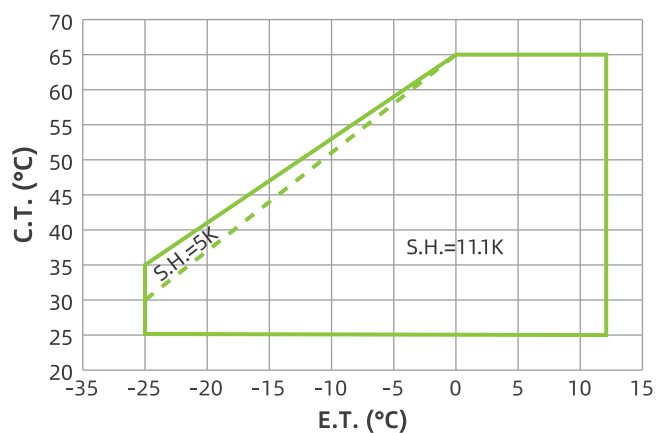


Product Line-up

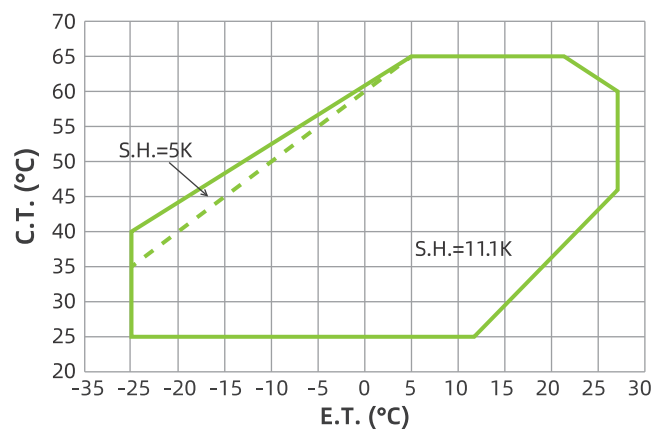


Operating Envelope

YA40-78 R454B

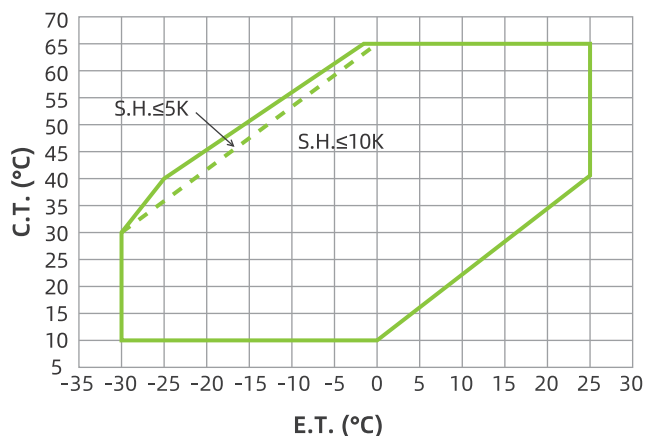


YA98-133 R454B

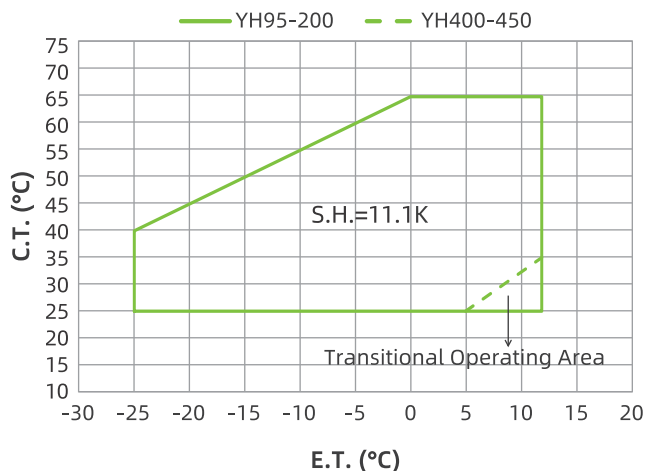


Operating Envelope

YH720D R32

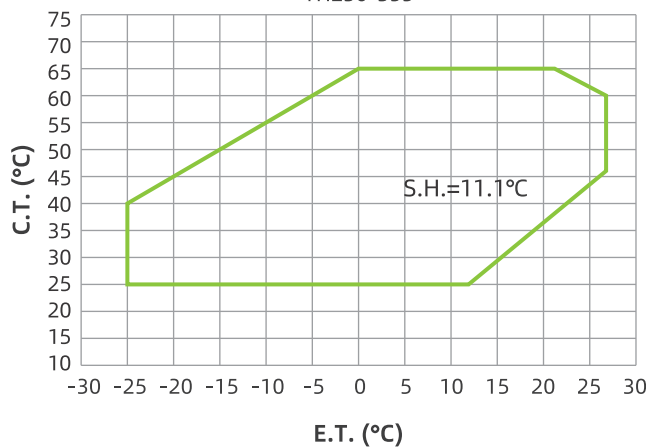


YH R410A



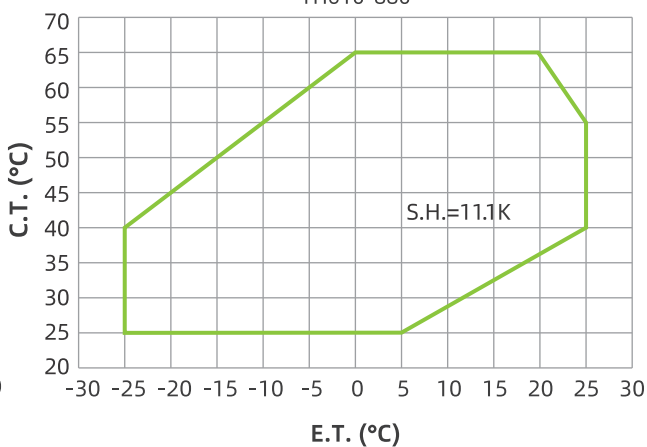
YH R410A

YH230-355



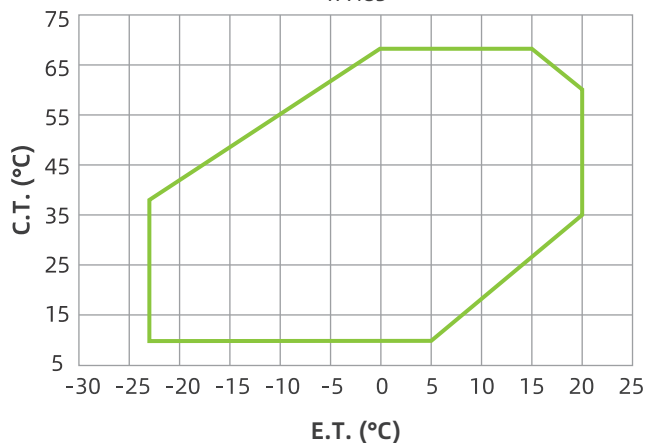
YH R410A

YH610-880



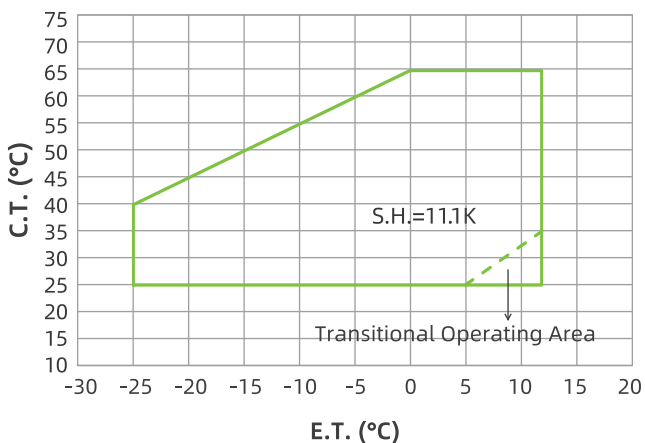
YA R410A

YA485



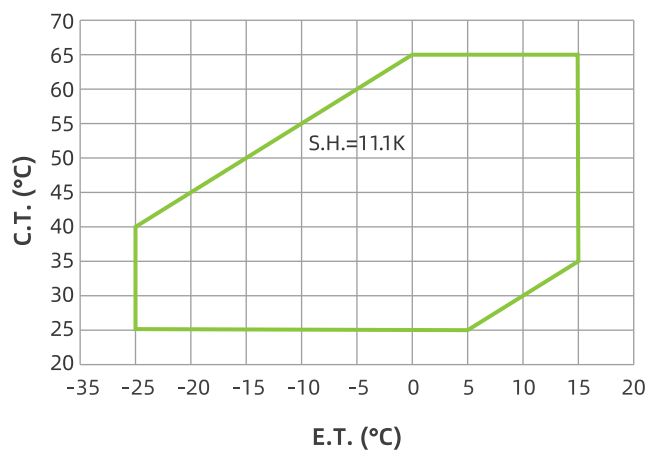
YH R22/R407C

YH69-400 YH450-YH720

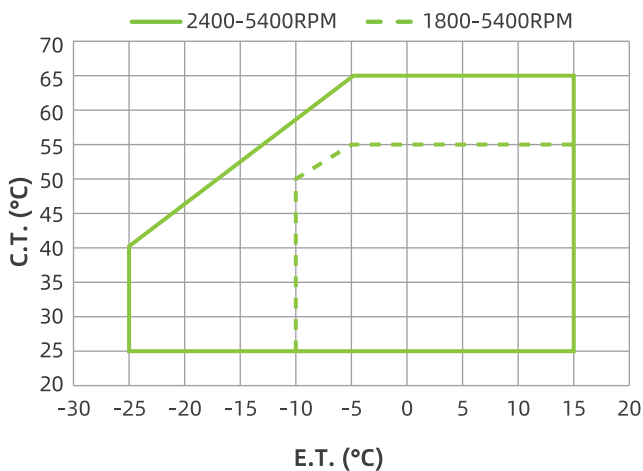


Operating Envelope

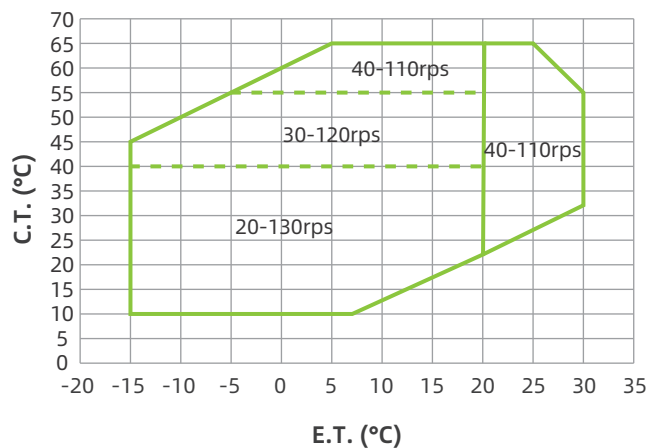
YHZ R407C



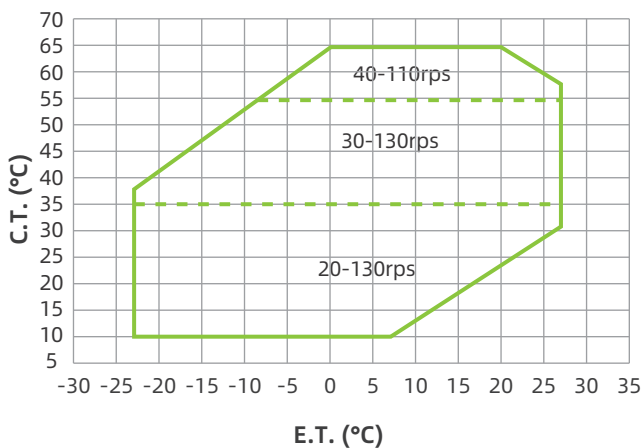
YIH38-72 R410A



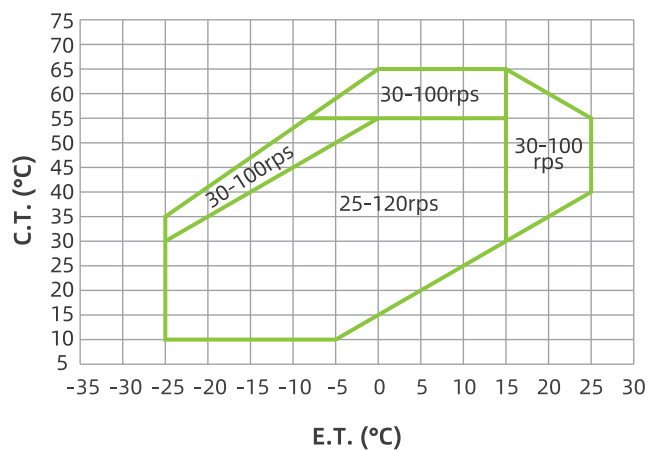
YID84-96 R410A



YIH114 R410A



YIH130 R410A



Specifications R454B

Model		YA40B1 -100	YA42B1 -100	YA50B1 -100	YA52B1 -100	YA59B1 -100	YA69B1 -100	YA74B1 -100	YA78B1 -100
Electricity		380-420V/3~/50Hz							
Power in Horse Power (HP)		3.5	3.7	4	4.3	5	6	6.5	7
Displacement (cc/rev)		38.5	41.4	46	49.4	59.2	66.1	71.3	74.7
Refrigerant		R454B							
Cooling Capacity (W)		9154	10085	11704	12300	14085	16509	17714	18781
Power in Watt (W)		3023	3316	3756	3816	4470	5236	5549	5775
COP (W/W)		3.03	3.04	3.12	3.22	3.15	3.15	3.19	3.25
Running Current (A)		5.6	6.1	7	7.2	8.3	9.3	10.3	10.7
LRA (A)		45	60	60	60	60	65	65	85
MOC (A)		7	8.4	9.2	9.9	12.1	12.1	13	13.6
Crankcase Heater (W)		70							
Fitting Dimensions (mm)	Discharge Tube(ID)	12.87-12.97							
	Suction Tube(ID)	22.35-22.45							
Product Dimensions (mm)	Length (L)	239							
	Width (W)	239							
	Height (H)	418					463		
	Feet Dimensions (Hole)	190.5x190.5(8.8)							
Oil Type		POE							
Initial Charge Volume (L)		1.4					1.6		
Recharge Volume (L)		1.25					1.45		
Max Pressure (MPa)	High Side	4							
	Low Side	2							
Weight (kg)		30	30	31	31	31	33	33	38

Nominal Working Conditions: E.T. 7.2°C, C.T. 54.4°C, Suction Superheat 11.1K, Subcooling 8.3K

Specifications R454B & R32

Model		YA98B1 -100	YA108B1 -100	YA119B1 -100	YA128B1 -100	YA133B1 -100	YH720D1G -100
Electricity		380-420V/3~/50Hz					380-420V/ 3~/50Hz
Power in Horse Power (HP)		8	9	10	11	12	25
Displacement (cc/rev)		90.8	100	107.5	123	131.6	269.0
Refrigerant		R454B					R32
Cooling Capacity (W)		23141	25775	28029	30642	31961	77248
Power in Watt (W)		6968	7806	8496	9432	9716	23297
COP (W/W)		3.32	3.3	3.3	3.25	3.29	3.32
Running Current (A)		13.2	14.3	15	16.5	17	43
LRA (A)		117	117	121	121	121	300.0
MOC (A)		16.5	18	19.3	21.2	23	57.8
Crankcase Heater (W)		90					120
Fitting Dimensions (mm)	Discharge Tube(ID)	22.35-22.45					28.80-28.90
	Suction Tube(ID)	28.83-28.93					41.56-41.66
Product Dimensions (mm)	Length (L)	260					359.8
	Width (W)	244					326.2
	Height (H)	506.7					671.2
	Feet Dimensions (Hole)	190.5×190.5(8.8)					232×232(8.8)
Oil Type		POE					POE
Initial Charge Volume (L)		2.7		3			4.5
Recharge Volume (L)		2.55		2.85			4.3
Max Pressure (MPa)	High Side	4					4.4
	Low Side	2					1.7
Weight (kg)		54	54	54	54	54	108

Nominal Working Conditions: E.T. 7.2°C, C.T. 54.4°C, Suction Superheat 11.1K, Subcooling 8.3K

Specifications R410A

Model		YH95C2 -100	YH104C2 -100	YH119C2 -100	YH128C2 -100	YH150C2 -100	YH95C1 -100	YH104C1 -100	YH119C1 -100	YH128C1 -100
Electricity		220V/1~/50Hz					380~420V/3~/50Hz			
Power in Horse Power (HP)		3.5	3.7	4	4.3	5	3.5	3.7	4	4.3
Displacement (cc/rev)		38.5	41.4	46	49.4	59.2	38.5	41.4	46	49.4
Refrigerant		R410A								
Cooling Capacity (W)		9583	10700	11900	12800	15000	9500	10700	11900	12800
Power in Watt (W)		3110	3543	3967	4267	4950	3170	3543	3888	4183
COP (W/W)		3.08	3.02	3	3	3.03	3	3.02	3.06	3.06
Running Current (A)		14.4	17.1	19	20.4	23.7	5.8	6.7	7.4	7.7
LRA (A)		76	109	140	140	140	45	60	60	60
MOC (A)		20	22.7	28.4	30.6	35.8	7.5	9	9.9	10.6
Crankcase Heater (W)		70								
Fitting Dimensions (mm)	Discharge Tube(ID)	12.87-12.97								
	Suction Tube(ID)	22.35-22.45								
Product Dimensions (mm)	Length (L)	239								
	Width (W)	239								
	Height (H)	418		463			418			
	Feet Dimensions (Hole)	190.5x190.5(8.8)								
Oil Type		POE								
Initial Charge Volume (L)		1.4								
Recharge Volume (L)		1.25								
Max Pressure (MPa)	High Side	4.3								
	Low Side	2								
Weight (kg)		33	33	37	37	37	30	31	31	31

Nominal Working Conditions: E.T. 7.2°C, C.T. 54.4°C, Suction Superheat 11.1K, Subcooling 8.3K

Specifications R410A

Model		YH150C1 -100	YH175C1 -100	YH183C1 -100	YH200C1 -100	YH230C1 -100	YH266C1 -100	YH292C1 -100	YH325C1 -100	YH355C1 -100
Electricity		380-420V/3~/50Hz								
Power in Horse Power (HP)		5	6	6.5	7	8	9	10	11	12
Displacement (cc/rev)		59.2	66.1	71.3	74.7	90.8	100	107.5	123	131.6
Refrigerant		R410A								
Cooling Capacity (W)		15000	17300	18300	19600	24920	26600	29200	32500	34800
Power in Watt (W)		4854	5545	5810	6200	7620	8340	9070	10100	10800
COP (W/W)		3.09	3.12	3.15	3.16	3.27	3.19	3.22	3.22	3.22
Running Current (A)		8.6	9.7	10.4	11.6	13.4	14.8	15.8	17.7	18.2
LRA (A)		60	65	65	85	117	117	121	121	121
MOC (A)		13	13.5	14	17.1	18.3	21.1	23.6	25	26.8
Crankcase Heater (W)		70				90				
Fitting Dimensions (mm)	Discharge Tube(ID)	12.87-12.97				22.35-22.45				
	Suction Tube(ID)	22.35-22.45				28.83-28.93				
Product Dimensions (mm)	Length (L)	239				260				
	Width (W)	239				244				
	Height (H)	418	463			506.7				
	Feet Dimensions (Hole)	190.5x190.5(8.8)								
Oil Type		POE								
Initial Charge Volume (L)		1.4	1.6			2.7		3		
Recharge Volume (L)		1.25	1.45			2.55		2.85		
Max Pressure (MPa)	High Side	4.3								
	Low Side	2								
Weight (kg)		31	33	33	38	53	53	54	54	54

Nominal Working Conditions: E.T. 7.2°C, C.T. 54.4°C, Suction Superheat 11.1K, Subcooling 8.3K

Specifications R410A

Model		YH400C1 -105	YH450C1 -105	YH610C1G -100	YH720C1G -100	YH880C1G -100	YA485C1G -100
Electricity		380-420V/3~/50Hz					
Power in Horse Power (HP)		13	15	20	25	30	40
Displacement (cc/rev)		145.4	167.2	235.6	269	332.8	443
Refrigerant		R410A					
Cooling Capacity (W)		39250	45044	63300	72300	86400	117600
Power in Watt (W)		12258	13759	19500	21750	26200	35200
COP (W/W)		3.2	3.27	3.25	3.32	3.3	3.34
Running Current (A)		21.5	24.1	35.2	38.5	47	60
LRA (A)		148.5	148.5	266	266	348	400
MOC (A)		32.5	36	45	53	66	95
Crankcase Heater (W)		90		120			
Fitting Dimensions (mm)	Discharge Tube(ID)	22.35-22.45		28.80-28.90			34.8-35.4
	Suction Tube(ID)	28.83-28.93		41.56-41.66			41.4-42.0
Product Dimensions (mm)	Length (L)	260		359.8			349.4
	Width (W)	244		326.2			349.4
	Height (H)	556.5		671.2			728.7
	Feet Dimensions (Hole)	190.5×190.5(8.8)		232×232(8.8)			269.8×269.8(8.8)
Oil Type		POE					
Initial Charge Volume (L)		3.7		5.5			5
Recharge Volume (L)		3.5		5.3			4.8
Max Pressure (MPa)	High Side	4.3					4.4
	Low Side	2					1.1
Weight (kg)		59	59	100	104	108	130

Nominal Working Conditions: E.T. 7.2°C, C.T. 54.4°C, Suction Superheat 11.1K, Subcooling 8.3K

Specifications R407C

Model		YH69T2 -102	YH89T2 -102	YH104T2 -100	YH119T2 -100	YH128T2 -100	YH69T6 -100	YH89T6 -100	YH104T6 -100	YH119T6 -100
Electricity		220V/1~/50Hz					220V/3~/50Hz			
Power in Horse Power (HP)		2	3	3.5	4	4.3	2	3	3.5	4
Displacement (cc/rev)		38.5	49.4	59.2	66.1	71.3	38.5	49.4	59.2	66.1
Refrigerant		R407C								
Cooling Capacity (W)		6530	8540	10180	11420	12290	6500	8609	10213	11995
Power in Watt (W)		2200	2827	3250	3660	3870	2170	2782	3177	3820
COP (W/W)		2.96	3.02	3.13	3.12	3.18	3	3.09	3.21	3.14
Running Current (A)		10.4	13.4	15.4	17.3	18.4	7.6	9.06	11.29	12.7
LRA (A)		76	76	109	109	109	104	104	132	132
MOC (A)		14.6	19.4	21.7	24.4	26.3	9.1	12.1	13.4	16.8
Crankcase Heater (W)		70								
Fitting Dimensions (mm)	Discharge Tube(ID)	12.87-12.97								
	Suction Tube(ID)	22.35-22.45								
Product Dimensions (mm)	Length (L)	239								
	Width (W)	239								
	Height (H)	418								
	Feet Dimensions (Hole)	190.5×190.5(8.8)								
Oil Type		POE								
Initial Charge Volume (L)		1.4							1.6	
Recharge Volume (L)		1.25							1.45	
Max Pressure (MPa)	High Side	3								
	Low Side	2								
Weight (kg)		31	31	33	33	33	30	30	31.5	31.5

Nominal Working Conditions: E.T. 7.2°C, C.T. 54.4°C, Suction Superheat 11.1K, Subcooling 8.3K

Specifications R407C

Model		YH128T6 -100	YH150T6 -100	YH230T6 -100	YH266T6 -100	YH307T6 -100	YH355T6 -100	YH69T1 -100	YH89T1 -100	YH104T1 -100
Electricity		220V/3~/50Hz						380-420V/3~/50Hz		
Power in Horse Power (HP)		4.3	5	8	9	10	12	2	3	3.5
Displacement (cc/rev)		71.3	83.3	123	142	167.2	189.1	38.5	49.4	59.2
Refrigerant		R407C								
Cooling Capacity (W)		12689	14568	21811	26853	29955	34080	6530	8540	10180
Power in Watt (W)		3962	4569	6616	7894	9075	10240	2160	2680	3190
COP (W/W)		3.2	3.19	3.3	3.4	3.3	3.3	3.02	3.19	3.19
Running Current (A)		12.8	14.3	21.7	25.1	27.5	30.8	4.8	5.3	6.6
LRA (A)		132	132	192.2	192	202.4	202.4	45	45	60
MOC (A)		18.6	20.5	27.1	32	38.2	43.3	6.2	7.6	8.7
Crankcase Heater (W)		70			90			70		
Fitting Dimensions (mm)	Discharge Tube(ID)	12.87-12.97			22.35-22.45			12.87-12.97		
	Suction Tube(ID)	22.35-22.45			28.83-28.93			22.35-22.45		
Product Dimensions (mm)	Length (L)	239			260			239		
	Width (W)	239			244			239		
	Height (H)	418			506.7			418		
	Feet Dimensions (Hole)	190.5x190.5(8.8)								
Oil Type		POE								
Initial Charge Volume (L)		1.6		2.7		3		1.4		
Recharge Volume (L)		1.45		2.55		2.85		1.25		
Max Pressure (MPa)	High Side	3								
	Low Side	2								
Weight (kg)		31.5	31.5	53	53	56	56	30	30	31

Nominal Working Conditions: E.T. 7.2°C, C.T. 54.4°C, Suction Superheat 11.1K, Subcooling 8.3K

Specifications R407C

Model		YH119T1 -100	YH128T1 -100	YH133T1 -100	YH140T1 -100	YH150T1 -100	YH175T1 -100	YH200T1 -100	YH282T1 -100	YH2140 T1-100	YH2185 T1-100
Electricity		380-420V/3~/50Hz									
Power in Horse Power (HP)		4	4.3	4.5	4.7	5	6	7	3	5	7
Displacement (cc/rev)		66.1	71.3	74.1	77.6	83.3	97.1	108	49.4	83.3	108
Refrigerant		R407C									
Cooling Capacity (W)		11420	12290	12770	13440	14400	16510	19300	8200	13795	18267
Power in Watt (W)		3550	3750	3900	4130	4410	5030	5970	2628	4310	5666
COP (W/W)		3.22	3.28	3.27	3.25	3.27	3.28	3.23	3.12	3.2	3.22
Running Current (A)		7.1	7.6	7.8	8	8.4	9.1	11.2	5.3	8.4	10.8
LRA (A)		60	60	60	60	60	65	85	45	60	85
MOC (A)		9.7	10.2	10.6	11.1	11.6	13.6	16.1	7.6	11.6	16.1
Crankcase Heater (W)		70									
Fitting Dimensions (mm)	Discharge Tube(ID)	12.87-12.97									
	Suction Tube(ID)	22.35-22.45									
Product Dimensions (mm)	Length (L)	239							558.5		558.5
	Width (W)	239							285		
	Height (H)	418					463		174		
	Feet Dimensions (Hole)	190.5x190.5(8.8)							220x280(8.8)		
Oil Type		POE									
Initial Charge Volume (L)		1.4					1.6		1.4		1.6
Recharge Volume (L)		1.25					1.45		1.25		1.45
Max Pressure (MPa)	High Side	3									
	Low Side	2									
Weight (kg)		31	31	31	31	31	33	38	34	34	40

Nominal Working Conditions: E.T. 7.2°C, C.T. 54.4°C, Suction Superheat 11.1K, Subcooling 8.3K

Specifications R407C

Model		YH230T1 -100	YH266T1 -100	YH307T1 -100	YH355T1 -100	YH400T1 -105	YH450T1 -100	YH610T1G -100	YH720T1G -100
Electricity		380-420V/3~/50Hz							
Power in Horse Power (HP)		8	9	10	12	13	15	20	25
Displacement (cc/rev)		123	142	167.2	189.1	210	246	332.6	392
Refrigerant		R407C							
Cooling Capacity (W)		22180	25530	29470	34080	39100	42220	58033	68356
Power in Watt (W)		6770	7780	8910	10240	12100	13156	17444	20547
COP (W/W)		3.28	3.28	3.31	3.33	3.4	3.21	3.32	3.32
Running Current (A)		12.9	14.8	15.6	17.8	21.5	20.5	31.5	36.7
LRA (A)		117	117	121	121	148.5	170	205	266
MOC (A)		17.6	19.7	22.5	25.3	32.2	31.5	40	51
Crankcase Heater (W)		90					120		
Fitting Dimensions (mm)	Discharge Tube(ID)	22.35-22.45					28.80-28.90		
	Suction Tube(ID)	28.83-28.93					41.56-41.66		
Product Dimensions (mm)	Length (L)	260					359.8		
	Width (W)	244					326.2		
	Height (H)	506.7				556.5	611.2	671.2	
	Feet Dimensions (Hole)	190.5x190.5(8.8)					232x232(8.8)		
Oil Type		POE							
Initial Charge Volume (L)		2.7		3		3.7	4.2	5.5	
Recharge Volume (L)		2.55		2.85		3.45	4	5.3	
Max Pressure (MPa)	High Side	3							
	Low Side	2							
Weight (kg)		53	53	54	54	57	95	100	104

Nominal Working Conditions: E.T. 7.2°C, C.T. 54.4°C, Suction Superheat 11.1K, Subcooling 8.3K

Specifications R22

Model		YH69A2 -102	YH89A2 -102	YH104A2 -100	YH119A2 -100	YH128A2 -100	YH133A2 -100	YH140A2 -100	YH150A2 -100
Electricity		220V/1~/50Hz							
Power in Horse Power (HP)		2	3	3.5	4	4.3	4.5	4.7	5
Displacement (cc/rev)		38.5	49.4	59.2	66.1	71.3	74.1	77.6	83.8
Refrigerant		R22							
Cooling Capacity (W)		6800	8900	10600	11900	12800	13300	14000	15000
Power in Watt (W)		2180	2799	3230	3625	3830	4030	4240	4545
COP (W/W)		3.12	3.18	3.28	3.28	3.34	3.3	3.3	3.3
Running Current (A)		10.3	13.3	15.3	17.2	18.2	19.1	20.1	21.7
LRA (A)		76	76	109	109	109	140	140	140
MOC (A)		14.5	19.2	21.5	24.2	26	27	28.4	30.9
Crankcase Heater (W)		70							
Fitting Dimensions (mm)	Discharge Tube(ID)	12.87-12.97							
	Suction Tube(ID)	22.35-22.45							
Product Dimensions (mm)	Length (L)	239							
	Width (W)	239							
	Height (H)	418					463		
	Feet Dimensions (Hole)	190.5×190.5(8.8)							
Oil Type		3GS							
Initial Charge Volume (L)		1.4							
Recharge Volume (L)		1.25							
Max Pressure (MPa)	High Side	3							
	Low Side	2							
Weight (kg)		31	31	33	33	33	37	37	37

Nominal Working Conditions: E.T. 7.2°C, C.T. 54.4°C, Suction Superheat 11.1K, Subcooling 8.3K

Specifications R22

Model		YH69A1 -100	YH89A1 -100	YH104A1 -100	YH119A1 -100	YH128A1 -100	YH133A1 -100	YH140A1 -100	YH150A1 -100	YH175A1 -100	YH200A1 -100
Electricity		380-420V/3~/50Hz									
Power in Horse Power (HP)		2	3	3.5	4	4.3	4.5	4.7	5	6	7
Displacement (cc/rev)		38.5	49.4	59.2	66.1	71.3	74.1	77.6	83.3	97.1	108
Refrigerant		R22									
Cooling Capacity (W)		6800	8900	10600	11900	12800	13300	14000	15000	17200	20110
Power in Watt (W)		2140	2650	3160	3520	3710	3860	4090	4370	4980	5910
COP (W/W)		3.18	3.35	3.35	3.38	3.45	3.45	3.42	3.42	3.45	3.4
Running Current (A)		4.8	5.3	6.5	7	7.5	7.7	8	8.3	9	10.8
LRA (A)		45	45	60	60	60	60	60	60	65	85
MOC (A)		6.1	7.5	8.6	9.6	10.1	10.5	11	11.5	13.5	16.1
Crankcase Heater (W)		70									
Fitting Dimensions (mm)	Discharge Tube(ID)	12.87-12.97									
	Suction Tube(ID)	22.35-22.45									
Product Dimensions (mm)	Length (L)	239									
	Width (W)	239									
	Height (H)	418								463	
	Feet Dimensions (Hole)	190.5×190.5(8.8)									
Oil Type		3GS									
Initial Charge Volume (L)		1.4								1.6	
Recharge Volume (L)		1.25								1.45	
Max Pressure (MPa)	High Side	3									
	Low Side	2									
Weight (kg)		30	30	31	31	31	31	31	31	33	38

Nominal Working Conditions: E.T. 7.2°C, C.T. 54.4°C, Suction Superheat 11.1K, Subcooling 8.3K

Specifications R22

Model		YH230A1 -100	YH266A1 -100	YH307A1 -100	YH355A1 -100	YH400A1 -105	YH450A1 -100	YH610A1 -100	YH720A1 -100
Electricity		380-420V/3~/50Hz							
Power in Horse Power (HP)		8	9	10	12	13	15	20	25
Displacement (cc/rev)		123	142	167.2	189.1	210	246	332.8	392
Refrigerant		R22							
Cooling Capacity (W)		23100	26600	30700	35500	40800	43777	59224	69759
Power in Watt (W)		6700	7700	8820	10140	12000	12991	17575	20701
COP (W/W)		3.45	3.45	3.48	3.5	3.4	3.37	3.37	3.37
Running Current (A)		12.7	14.6	15.4	17.6	21.2	20.5	31.5	36.7
LRA (A)		117	117	121	121	148.5	170	266	266
MOC (A)		17.4	19.5	22.3	25	32	31.5	40	50.1
Crankcase Heater (W)		90					120		
Fitting Dimensions (mm)	Discharge Tube(ID)	22.35-22.45					28.80-28.90		
	Suction Tube(ID)	28.83-28.93					41.56-41.66		
Product Dimensions (mm)	Length (L)	260					359.8		
	Width (W)	244					326.2		
	Height (H)	506.7				556.5	611.2	671.2	
	Feet Dimensions (Hole)	190.5×190.5(8.8)					232×232(8.8)		
Oil Type		3GS							
Initial Charge Volume (L)		2.7		3		3.7	4.2	5.5	
Recharge Volume (L)		2.55		2.85		3.45	4	5.3	
Max Pressure (MPa)	High Side	3							
	Low Side	2							
Weight (kg)		53	53	54	54	57	95	104	104

Nominal Working Conditions: E.T. 7.2°C, C.T. 54.4°C, Suction Superheat 11.1K, Subcooling 8.3K

Specifications Variable Speed R410A

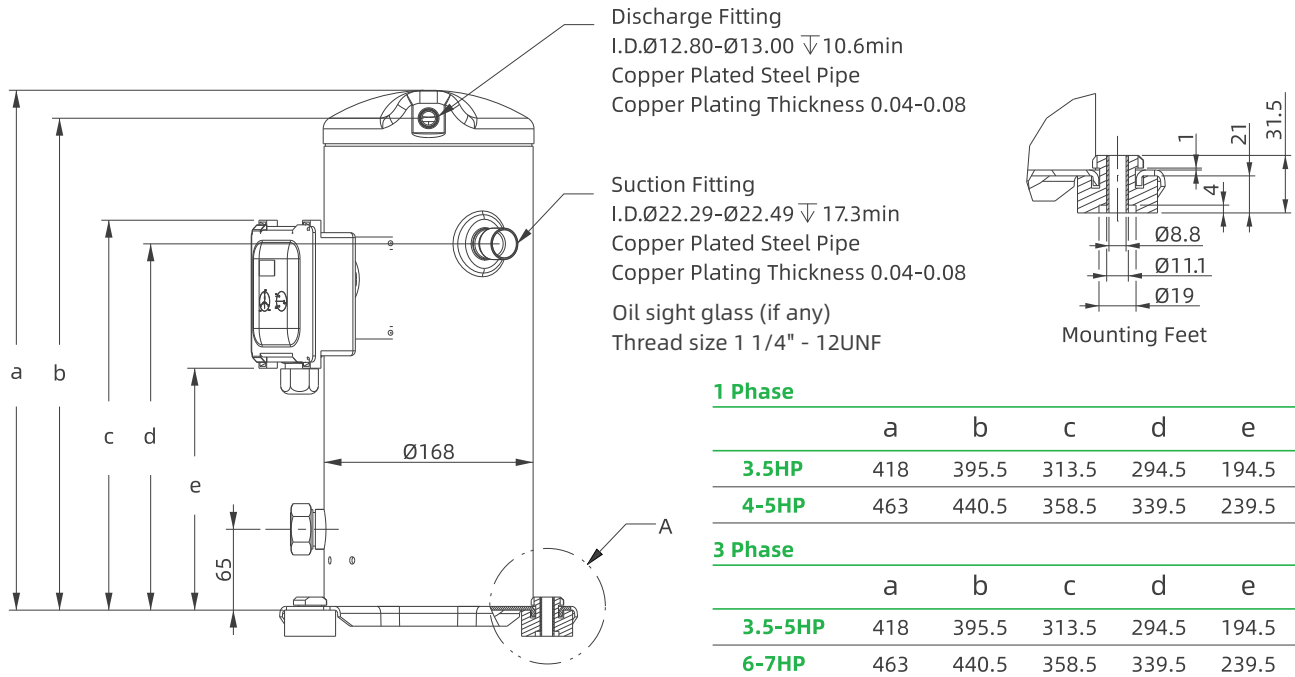
Model		YIH38C 1G-100	YIH42C 1G-100	YIH50C 1G-100	YIH60C 1G-100	YIH72C 1G-100	YID84C 1G-100	YID96C 1G-100	YIH114C 1G-100	YIH130C 1G-100
Power Input to Inverter Driver		380-420V/3~/50Hz or 60Hz								
Displacement (cc/rev)		38	42	50	60	72	84	96	114	130
Refrigerant		R410A								
Cooling Capacity (W)		16158	17858	21260	25111	29769	27500	31100	38000	54400
Power in Watt (W)		4995	5521	6572	7814	9190	8100	9200	11200	16688
COP (W/W)		3.23	3.23	3.23	3.21	3.24	3.40	3.38	3.39	3.26
Running Current (A)		8.4	8.7	12.3	13.7	15.8	23.2	26.5	30.8	34
MOC (A)		12.9	13.3	18.8	21	24.2	38	44	48	75
Rated Motor Speed (RPM)		4500					3600			4500
Running Speed (RPM)		1800-5400					1200-7800			1500-7200
Crankcase Heater (W)		70							90	120
Fitting Dimensions (mm)	Discharge Tube(ID)	12.87-12.97					22.35-22.45		28.65-29.05	28.5-28.9
	Suction Tube(ID)	22.35-22.45					28.80-28.90		35.2-35.8	35.2-35.8
Product Dimensions (mm)	Length (L)	239					239.4		231.5	359.8
	Width (W)	239					239.4		231.5	326.2
	Height (H)	419					471.5		561.7	612.2
	Feet Dimensions (Hole)	190.5×190.5(8.8)								232×232(8.8)
Oil Type		POE								
Initial Charge Volume (L)		1.4					1.5		2.75	5.5
Recharge Volume (L)		1.25					1.35		2.6	5.2
Max Pressure (MPa)	High Side	4.3								
	Low Side	2								
Weight (kg)		29.5	29.5	29.5	29.5	29.5	38.5	40	57	80

Nominal Working Conditions: E.T. 7.2°C, C.T. 54.4°C, Suction Superheat 11.1K, Subcooling 8.3K@Rated Speed

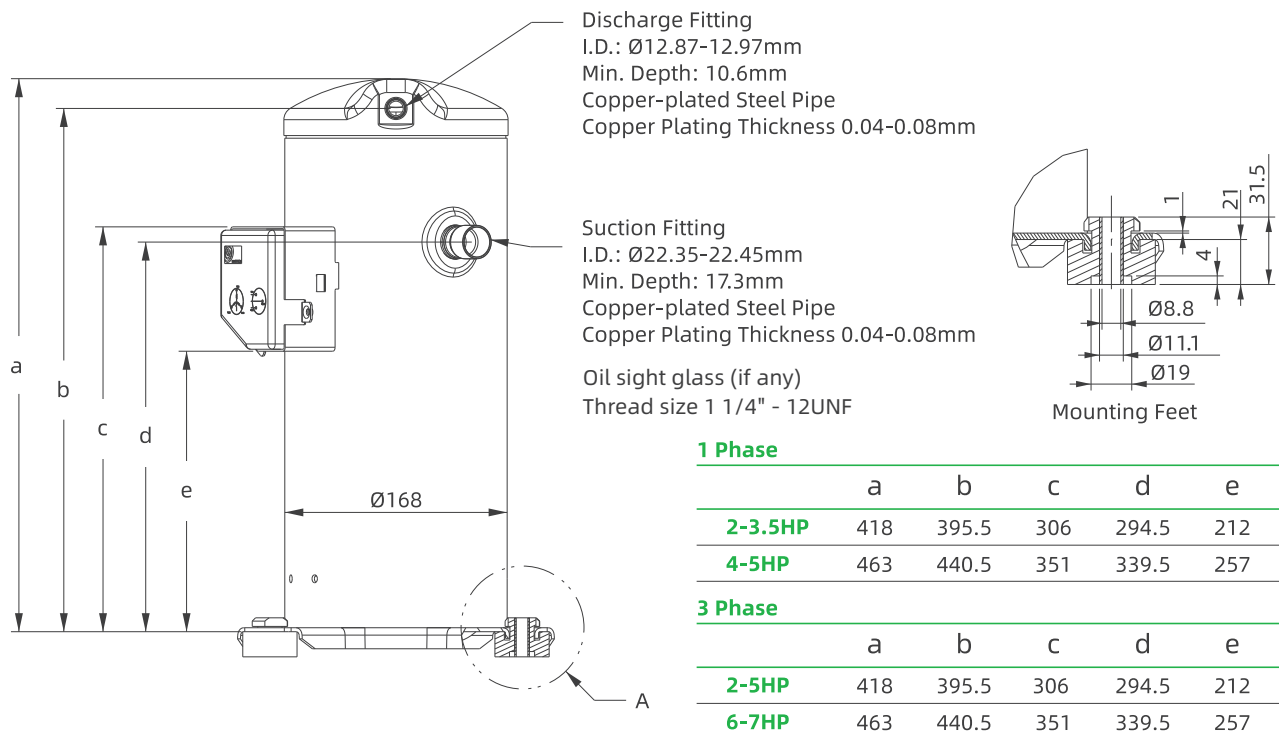
Model	YIH38C 1G-100	YIH42C 1G-100	YIH50C 1G-100	YIH60C 1G-100	YIH72C1 G-100	YID84C 1G-100	YID96C 1G-100	YIH114C 1G-100	YIH130C 1G-100
Motor Speed (RPM)	1800					1200			1800
Cooling Capacity (W)	6221	6875	8185	9668	11461	9167	10367	12667	21651
Power in Watt (W)	2128	2352	2800	3329	3915	2700	3067	3733	6842
Motor Speed (RPM)	3600					5400			3600
Cooling Capacity (W)	12926	14286	17008	20089	23815	41250	46650	57000	42813
Power in Watt (W)	3996	4417	5258	6251	7352	12150	13800	16800	13167
Motor Speed (RPM)	5400					7800			6000
Cooling Capacity (W)	19390	21430	25512	30133	35723	59583	67383	82333	72896
Power in Watt (W)	6124	6769	8057	9580	11267	17550	19933	24267	23530

E.T. 7.2°C, C.T. 54.4°C, Suction Superheat 11.1K, Subcooling 8.3K @Different Speed

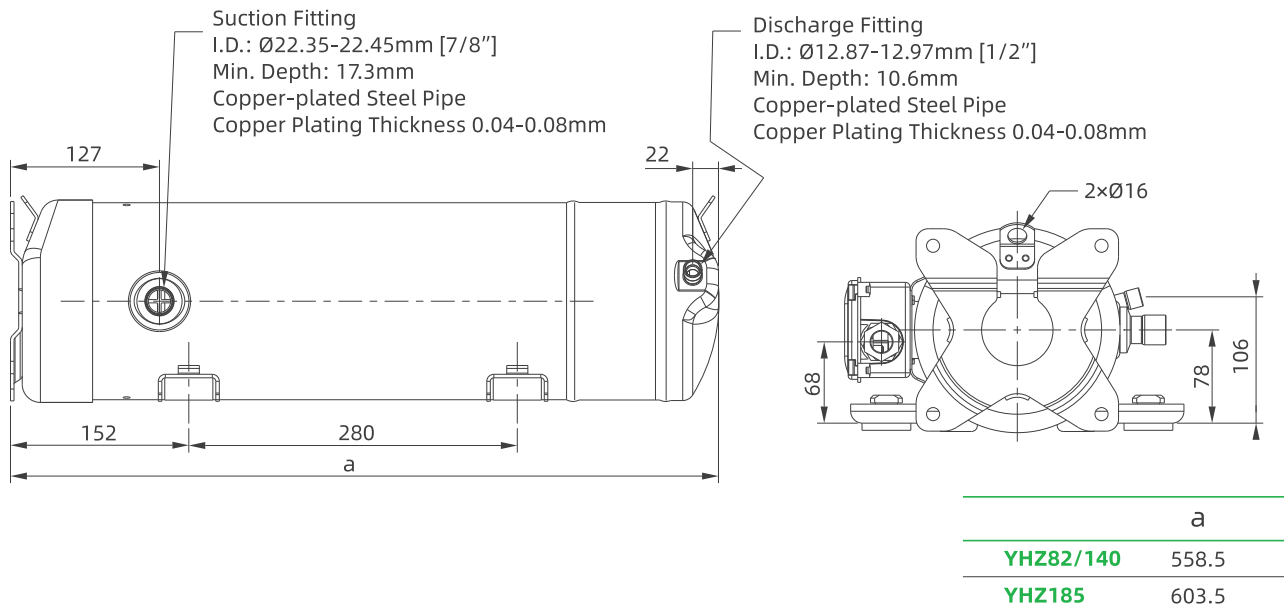
Dimensions R454B 3.5-7HP



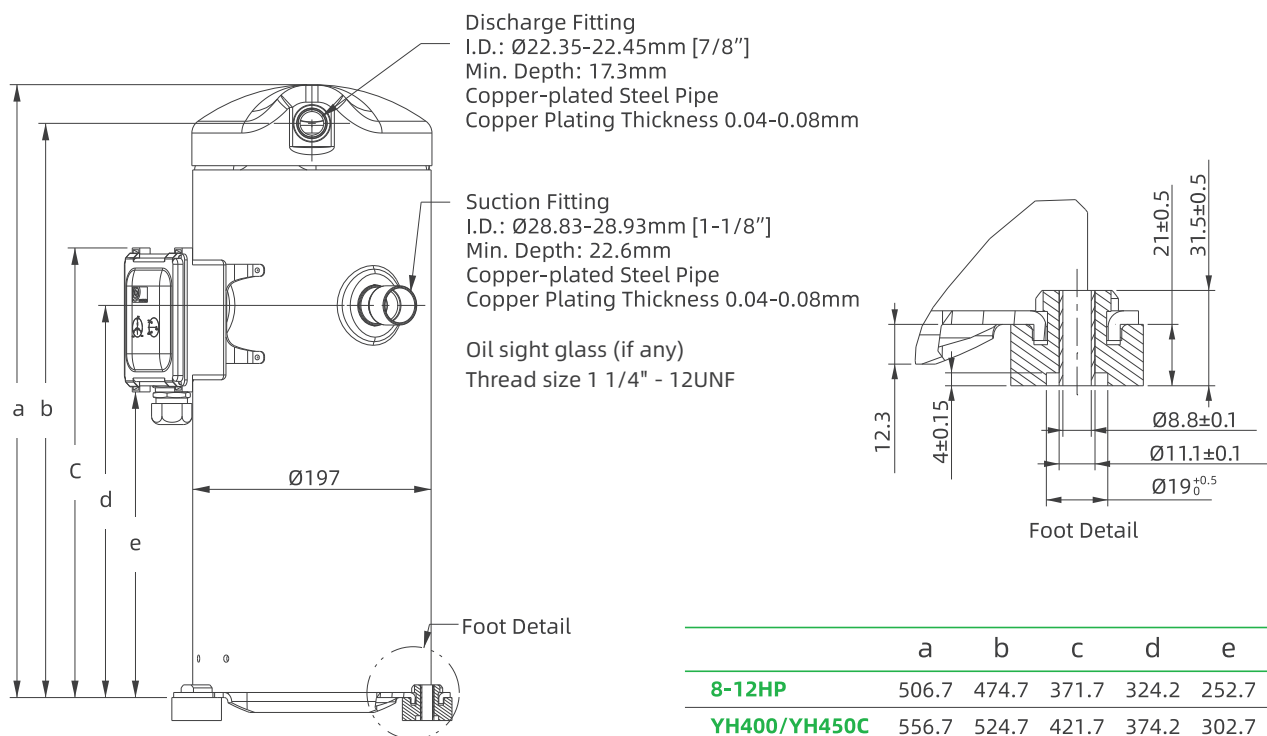
Dimensions 2-7HP



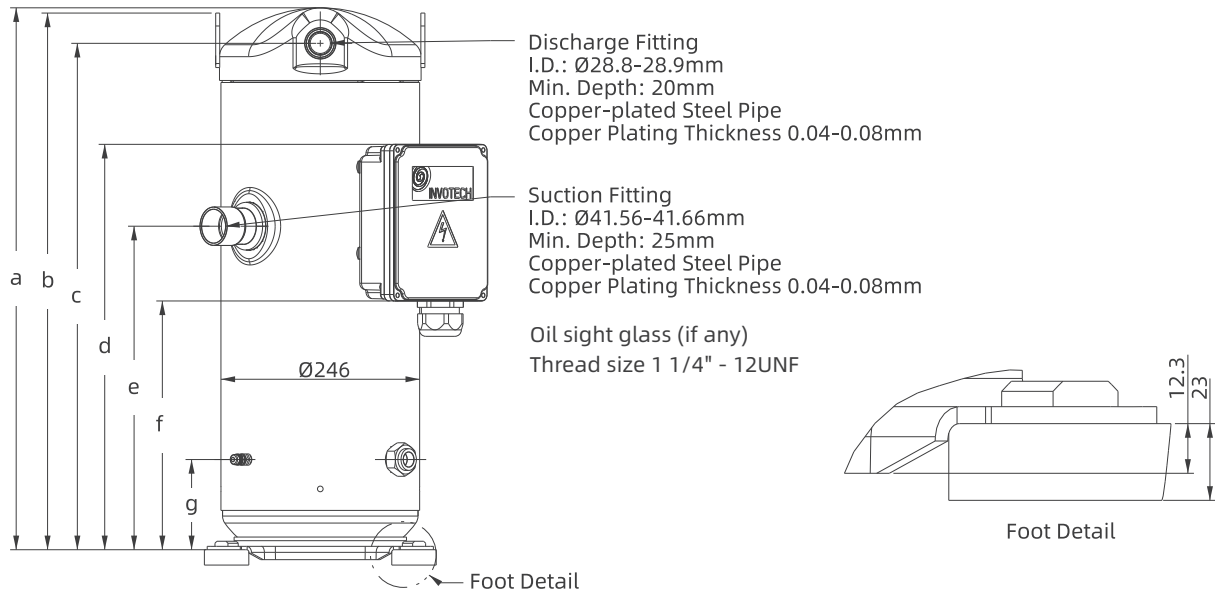
Dimensions Horizontal YHZ82-185



Dimensions 8-15HP

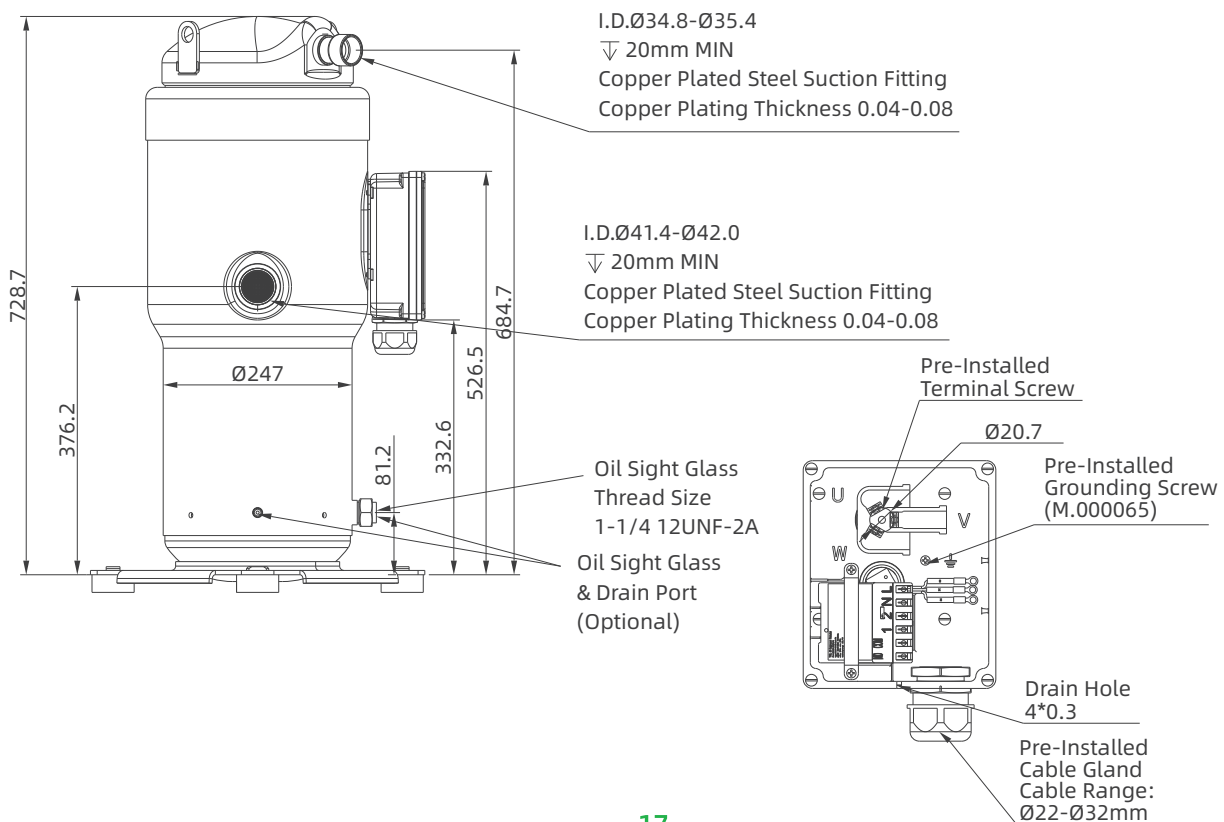


Dimensions 15-30HP

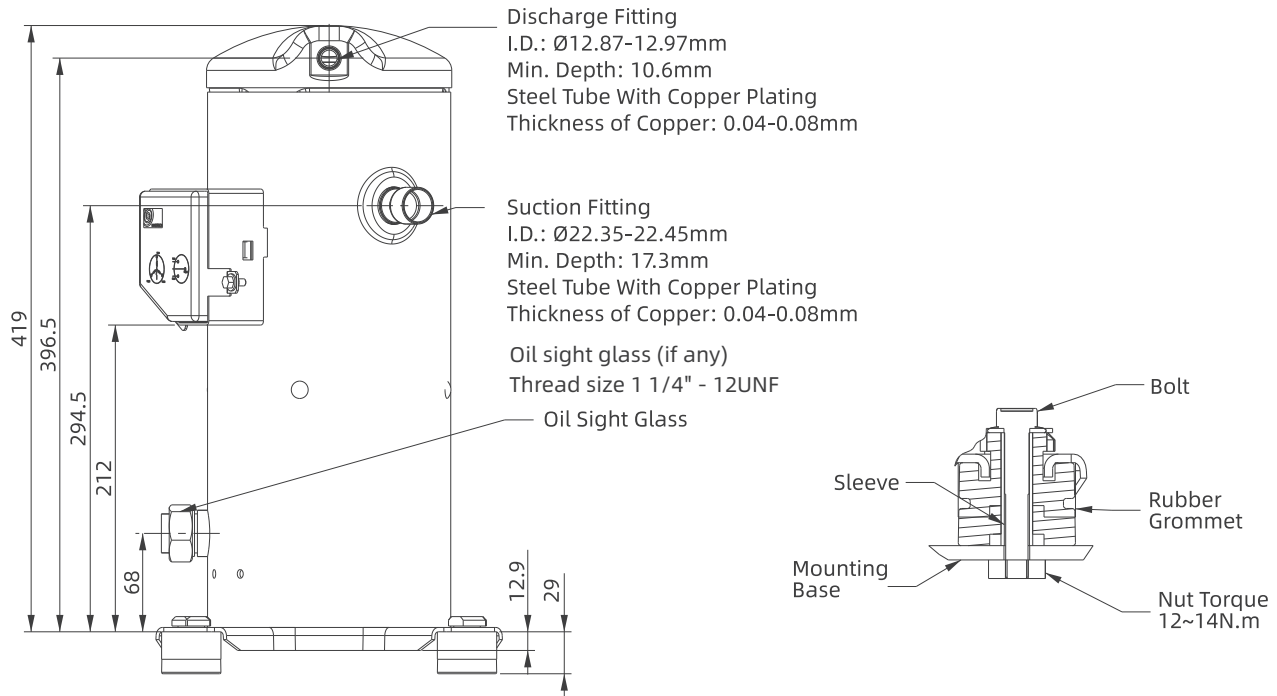


	a	b	c	d	e	f	g
YH450T/YH450A	611.2	604.7	567.2	442.1	340.7	248.1	83.7
20-30HP	671.2	664.7	627.2	502.1	400.7	308.1	111.7

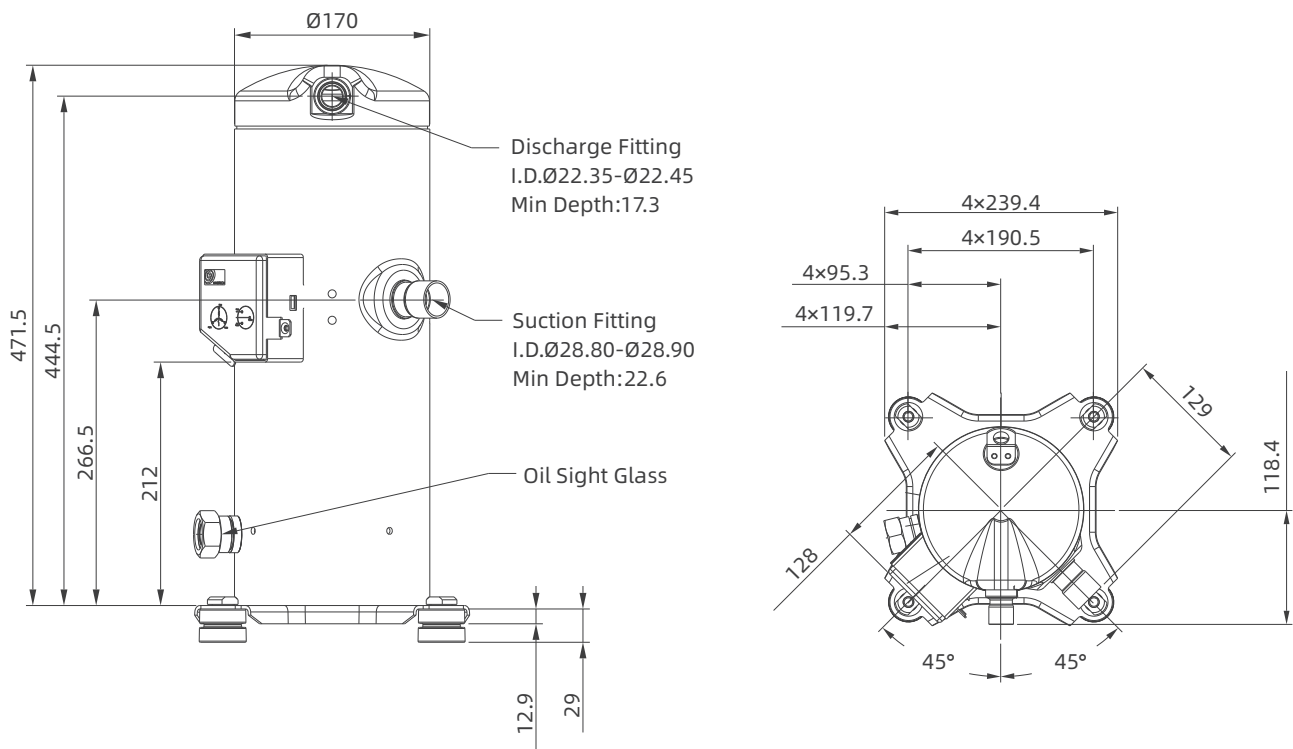
Dimensions 40HP



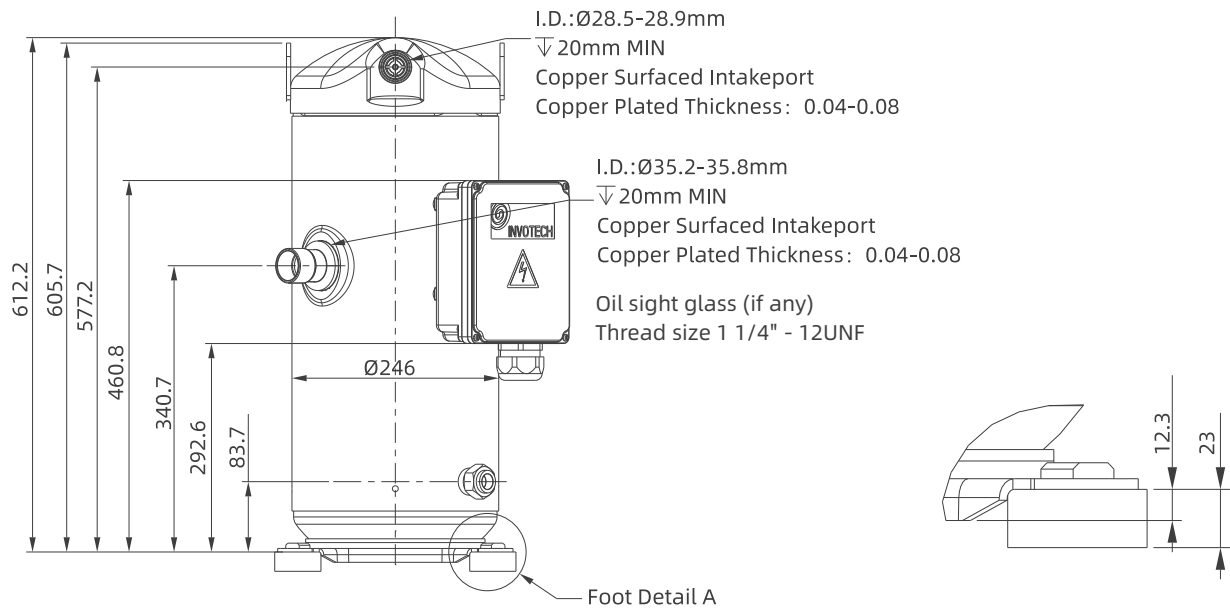
Dimensions Variable Speed YIH38-72



Dimensions Variable Speed YID84-96



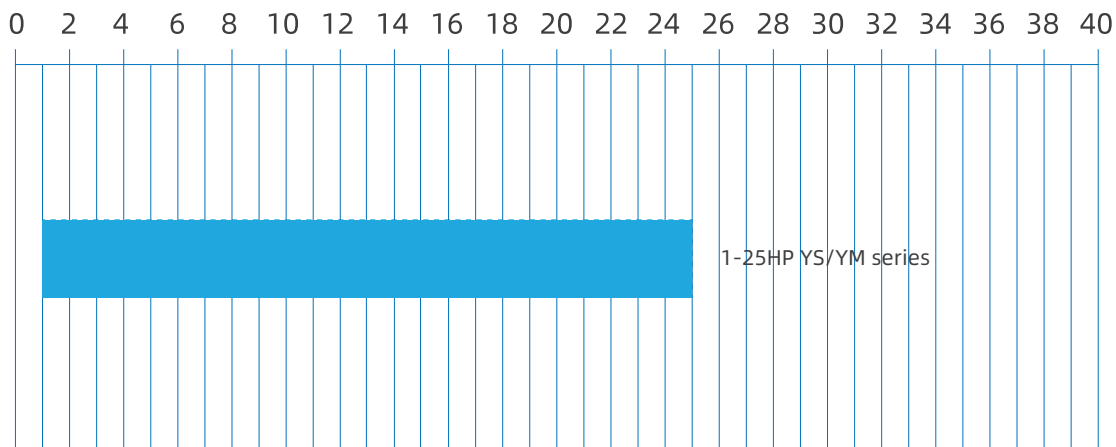
Dimensions Variable Speed YIH130



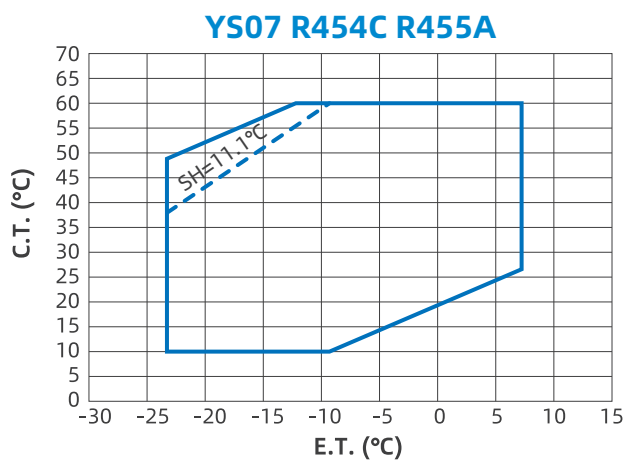
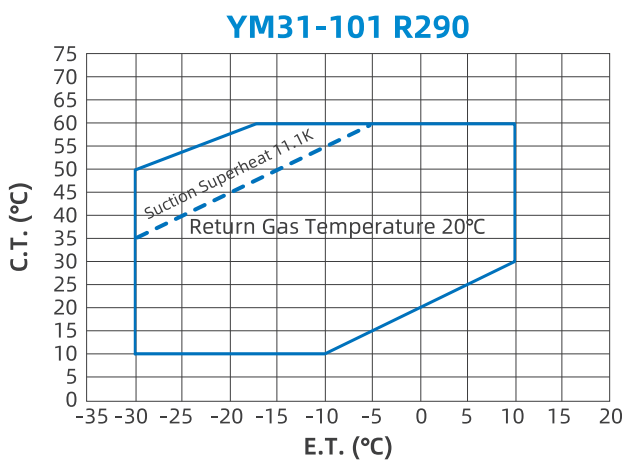
SCROLL COMPRESSORS FOR MEDIUM TEMPERATURE REFRIGERATION



Product Line-up

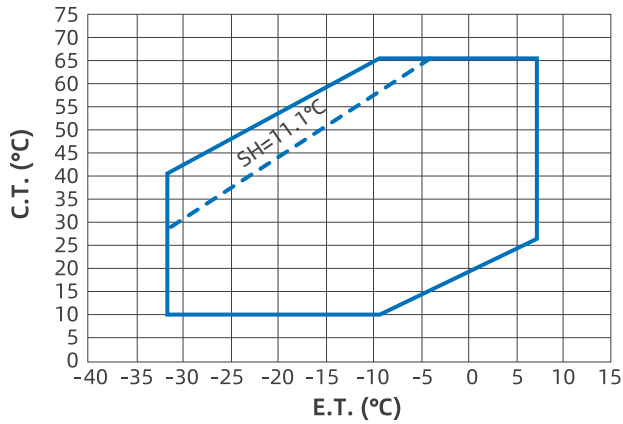


Operating Envelope

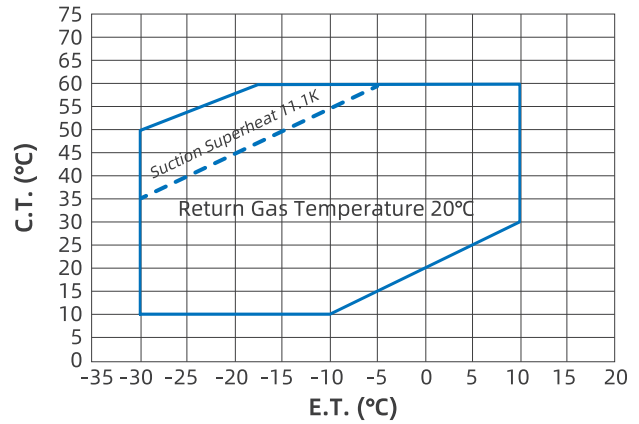


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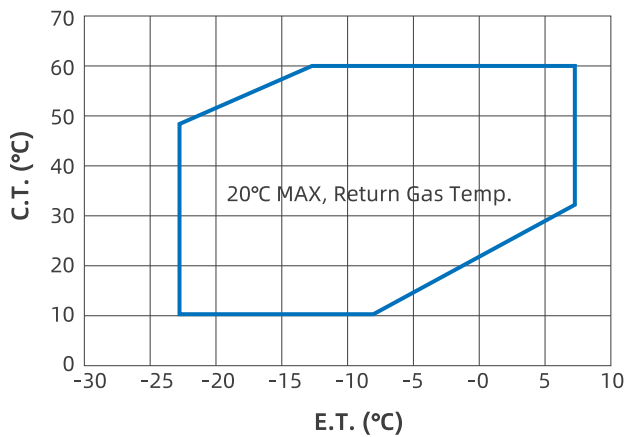
YS11-19 R454C R455A



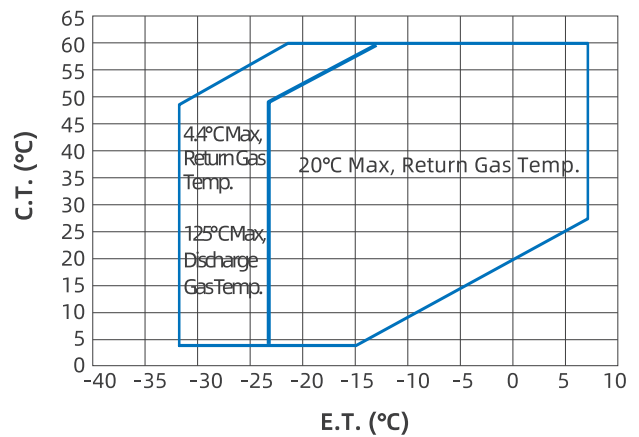
YM34-210 R454C R455A



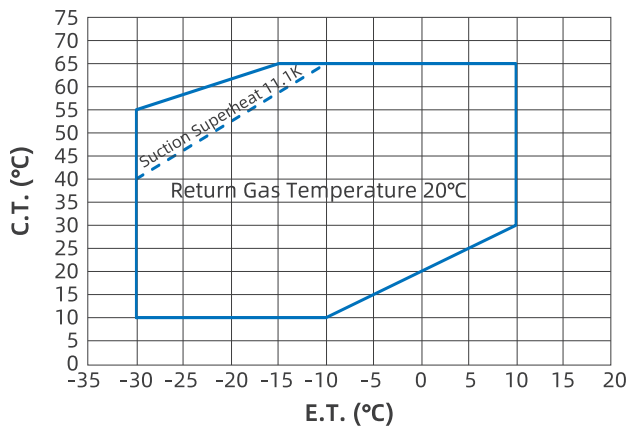
YS07 R404A



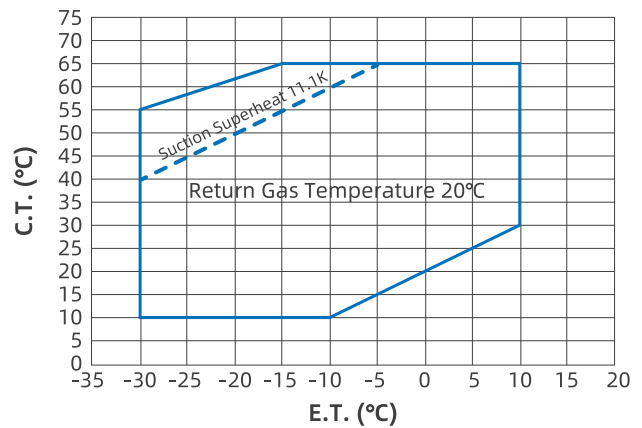
YS11-20 R404A



YM34-260/YMZ46-110 R404A

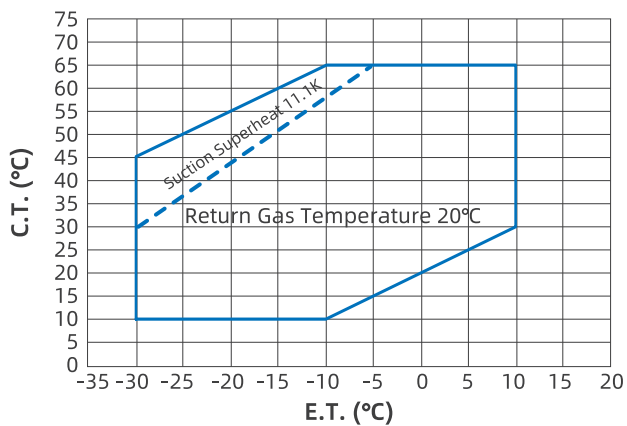


YM350-410 R404A

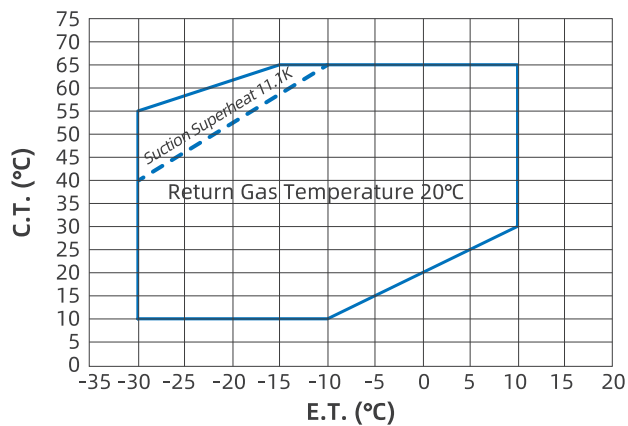


Operating Envelope

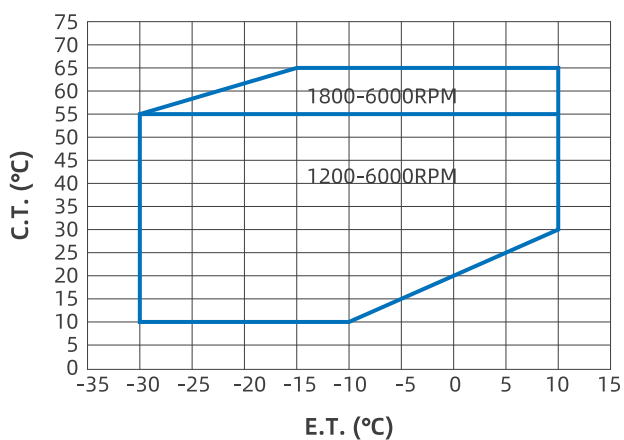
YM34-115 R448A R449A



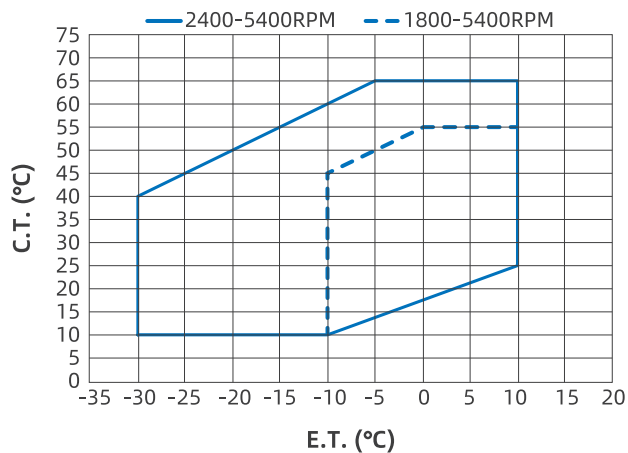
YM34-115 R452A



YIM38-72 R290



YIM38-72 R404A



Specifications R290

Model		YM31P1 -100	YM37P1 -100	YM42P1 -100	YM52P1 -100	YM60P1 -100	YM73P1 -100	YM90P1 -100	YM101P1 -100
Electricity		380-420V/3~/50Hz							
Power in Horse Power (HP)		2	2.5	3	3.5	4	5	6	7
Displacement (cc/rev)		33.3	42	46.6	58	67.8	83.3	98.3	108
Refrigerant		R290							
Cooling Capacity (W)		3049	3726	4203	5389	6215	7714	8965	10019
Power in Watt (W)		1590	1820	2049	2477	2851	3412	3978	4303
COP (W/W)		1.92	2.05	2.05	2.18	2.18	2.26	2.25	2.33
Running Current (A)		2.8	3.3	3.6	5.0	5.5	6.5	7.3	7.7
LRA (A)		22	22	22	45	45	60	60	60
MOC (A)		4.0	4.5	5.0	6.6	7	8.3	9.7	10.8
Crankcase Heater (W)		70							
Fitting Dimensions (mm)	Discharge Tube(ID)	12.87-12.97							
	Suction Tube(ID)	22.35-22.45							
Product Dimensions (mm)	Length (L)	239							
	Width (W)	239							
	Height (H)	418							
	Feet Dimensions (Hole)	190.5x190.5(8.8)							
Oil Type		PAG							
Initial Charge Volume (L)		1.4						1.6	
Recharge Volume (L)		1.25						1.45	
Max Pressure (MPa)	High Side	2.1							
	Low Side	1.7							
Weight (kg)		29	30	30	31	31	31	33	38

E.T. -6.7°C, C.T. 48.9°C, R.G. 4.4°C, No Subcooling

Specifications R454C

Model		YS07U1G-100	YS11U1G-100	YS14U1G-100	YS16U1G-100	YS19U1G-100
Electricity		380-420V/3~/50Hz				
Power in Horse Power (HP)		1	1.5	2	2.5	3
Displacement (cc/rev)		17	25	34	39	47
Refrigerant		R454C				
Cooling Capacity (W)		1498	2342	3248	3688	4484
Power in Watt (W)		909	1145	1533	1716	2067
COP (W/W)		1.65	2.05	2.12	2.15	2.17
Running Current (A)		1.6	2.1	2.7	3.1	3.8
LRA (A)		37	37	37	37	41
MOC (A)		1.8	2.9	3.9	4.6	5.4
Crankcase Heater (W)		45				
Fitting Dimensions (mm)	Discharge Tube(ID)	12.81-12.99				
	Suction Tube(ID)	19.12-19.3				
Product Dimensions (mm)	Length (L)	239				
	Width (W)	239				
	Height (H)	392				
	Feet Dimensions (Hole)	190.5x190.5(8.8)				
Oil Type		POE				
Initial Charge Volume (L)		0.85				
Recharge Volume (L)		0.7				
Max Pressure (MPa)	High Side	3.2				
	Low Side	2				
Weight (kg)		25	25	26	26	26

E.T. -6.7°C, C.T. 48.9°C, R.G. 18.3°C, No Subcooling

Specifications R454C

Model		YM34U1G -100	YM43U1G -100	YM49U1G -100	YM60U1G -100	YM70U1G -100	YM86U1G -100	YM102U1G -100	YM115U1G -100
Electricity		380-420V/3~/50Hz							
Power in Horse Power (HP)		2	2.5	3	3.5	4	5	6	7
Displacement (cc/rev)		33.3	42	46.6	58	67.8	83.3	98.3	108
Refrigerant		R454C							
Cooling Capacity (W)		3203	4016	4437	5584	6524	7880	9300	10220
Power in Watt (W)		1573	1930	2094	2570	2924	3530	4110	4520
COP (W/W)		2.04	2.08	2.12	2.17	2.23	2.23	2.26	2.26
Running Current (A)		3	3.9	4.5	5.4	6.2	7.4	8.2	8.9
LRA (A)		22	45	45	60	60	60	65	85
MOC (A)		4.1	5	5.6	6.7	7.6	9.2	10.7	11.8
Crankcase Heater (W)		70							
Fitting Dimensions (mm)	Discharge Tube(ID)	12.87-12.97							
	Suction Tube(ID)	22.35-22.45							
Product Dimensions (mm)	Length (L)	239							
	Width (W)	239							
	Height (H)	418						463	
	Feet Dimensions (Hole)	190.5x190.5(8.8)							
Oil Type		POE							
Initial Charge Volume (L)		1.4						1.6	
Recharge Volume (L)		1.25						1.45	
Max Pressure (MPa)	High Side	2.5							
	Low Side	1.9							
Weight (kg)		29	30	30	31	31	31	33	38

E.T. -6.7°C, C.T. 48.9°C, R.G. 4.4°C, No Subcooling

Specifications R454C

Model		YM125U1G-100	YM132U1G-100	YM158U1G-100	YM182U1G-100	YM200U1G-100	YM210U1G-100
Electricity		380-420V/3~/50Hz					
Power in Horse Power (HP)		7.5	8	9	10	12	13
Displacement (cc/rev)		115.5	123	145.4	167.2	189.1	197.1
Refrigerant		R454C					
Cooling Capacity (W)		10847	11529	13987	15447	16992	18821
Power in Watt (W)		4991	5164	6232	6788	7675	8426
COP (W/W)		2.17	2.23	2.24	2.28	2.21	2.23
Running Current (A)		10.6	10.8	12.3	13	13.8	15.3
LRA (A)		102	117	117	121	121	121
MOC (A)		17.3	18.4	21.0	23.6	26.5	27.6
Crankcase Heater (W)		90					
Fitting Dimensions (mm)	Discharge Tube(ID)	22.35-22.45					
	Suction Tube(ID)	28.83-28.93					
Product Dimensions (mm)	Length (L)	272					
	Width (W)	248					
	Height (H)	506.7					
	Feet Dimensions (Hole)	190.5x190.5(8.8)					
Oil Type		POE					
Initial Charge Volume (L)		2.7			3.0		
Recharge Volume (L)		2.55			2.85		
Max Pressure (MPa)	High Side	2.37					
	Low Side	0.63					
Weight (kg)		53	53	56	56	56	56

E.T. -6.7°C, C.T. 48.9°C, R.G. 4.4°C, No Subcooling

Specifications R455A

Model		YS07U1G-100	YS11U1G-100	YS14U1G-100	YS16U1G-100	YS19U1G-100
Electricity		380-420V/3~/50Hz				
Power in Horse Power (HP)		1	1.5	2	2.5	3
Displacement (cc/rev)		17	25	34	39	47
Refrigerant		R455A				
Cooling Capacity (W)		1674	2588	3602	4053	5006
Power in Watt (W)		939	1225	1600	1760	2150
COP (W/W)		1.78	2.11	2.25	2.30	2.33
Running Current (A)		1.6	2.2	2.9	3.2	3.9
LRA (A)		37	37	37	37	41
MOC (A)		1.8	3.3	4.2	4.7	5.7
Crankcase Heater (W)		45				
Fitting Dimensions (mm)	Discharge Tube(ID)	12.81-12.99				
	Suction Tube(ID)	19.12-19.3				
Product Dimensions (mm)	Length (L)	239				
	Width (W)	239				
	Height (H)	392				
	Feet Dimensions (Hole)	190.5x190.5(8.8)				
Oil Type		POE				
Initial Charge Volume (L)		0.85				
Recharge Volume (L)		0.7				
Max Pressure (MPa)	High Side	3.2				
	Low Side	2				
Weight (kg)		25	25	26	26	26

E.T. -6.7°C, C.T. 48.9°C, R.G. 18.3°C, No Subcooling

Specifications R455A

Model		YM34U1G -100	YM43U1G -100	YM49U1G -100	YM60U1G -100	YM70U1G -100	YM86U1G -100	YM102U1G -100	YM115U1G -100
Electricity		380-420V/3~/50Hz							
Power in Horse Power (HP)		2	2.5	3	3.5	4	5	6	7
Displacement (cc/rev)		33.3	42	46.6	58	67.8	83.3	98.3	108
Refrigerant		R455A							
Cooling Capacity (W)		3421	4351	4795	5985	7032	8641	10190	11071
Power in Watt (W)		1698	2128	2298	2794	3186	3803	4430	4825
COP (W/W)		2.01	2.05	2.09	2.14	2.2	2.27	2.3	2.3
Running Current (A)		3.3	4.1	4.5	5.4	6.2	7.4	8.6	9.4
LRA (A)		22	45	45	60	60	60	65	85
MOC (A)		4.4	5.6	6.0	7.3	8.3	9.9	11.6	12.6
Crankcase Heater (W)		70							
Fitting Dimensions (mm)	Discharge Tube(ID)	12.87-12.97							
	Suction Tube(ID)	22.35-22.45							
Product Dimensions (mm)	Length (L)	239							
	Width (W)	239							
	Height (H)	418						463	
	Feet Dimensions (Hole)	190.5x190.5(8.8)							
Oil Type		POE							
Initial Charge Volume (L)		1.4						1.6	
Recharge Volume (L)		1.25						1.45	
Max Pressure (MPa)	High Side	2.5							
	Low Side	1.9							
Weight (kg)		29	30	30	31	31	31	33	38

E.T. -6.7°C, C.T. 48.9°C, R.G. 4.4°C, No Subcooling

Specifications R455A

Model		YM125U1G-100	YM132U1G-100	YM158U1G-100	YM182U1G-100	YM200U1G-100	YM210U1G-100
Electricity		380-420V/3~/50Hz					
Power in Horse Power (HP)		7.5	8	9	10	12	13
Displacement (cc/rev)		115.5	123	145.4	167.2	189.1	197.1
Refrigerant		R455A					
Cooling Capacity (W)		11943	12580	15300	17245	19532	20540
Power in Watt (W)		5341	5626	6627	7470	8431	8866
COP (W/W)		2.24	2.24	2.30	2.30	2.32	2.32
Running Current (A)		11	11.3	12.8	14.6	15.4	15.9
LRA (A)		102	117	117	121	121	121
MOC (A)		17.3	18.4	21.0	23.6	26.5	27.6
Crankcase Heater (W)		90					
Fitting Dimensions (mm)	Discharge Tube(ID)	22.35-22.45					
	Suction Tube(ID)	28.83-28.93					
Product Dimensions (mm)	Length (L)	272					
	Width (W)	248					
	Height (H)	506.7					
	Feet Dimensions (Hole)	190.5x190.5(8.8)					
Oil Type		POE					
Initial Charge Volume (L)		2.7			3.0		
Recharge Volume (L)		2.55			2.85		
Max Pressure (MPa)	High Side	2.53					
	Low Side	0.67					
Weight (kg)		53	53	56	56	56	56

E.T. -6.7°C, C.T. 48.9°C, R.G. 4.4°C, No Subcooling

Specifications R404A

Model		YS07E 2G-100	YS11E 2G-100	YS15E 2G-100	YS19E 2G-100	YS20E 2G-100	YS07E 1G-100	YS11E 1G-100	YS15E 1G-100	YS19E 1G-100	YS20E 1G-100
Electricity		220V/1~/50Hz					380-420V/3~/50Hz				
Power in Horse Power (HP)		1	1.5	2	2.5	3	1	1.5	2	2.5	3
Displacement (cc/rev)		17	25	34	39	47	17	25	34	39	47
Refrigerant		R404A									
Cooling Capacity (W)		1730	2680	3620	4150	5051	1697	2660	3660	4170	5050
Power in Watt (W)		978	1450	1810	2070	2510	1054	1480	1820	2070	2500
COP (W/W)		1.77	1.85	2.00	2.00	2.01	1.61	1.80	2.01	2.01	2.02
Running Current (A)		4.4	6.6	8.3	9.4	11.6	2.65	3.09	3.54	3.72	4.58
LRA (A)		42.2	48.9	59	59	76	37	37	37	37	41
MOC (A)		6.7	9.7	12.3	14.5	20.6	3	3.8	4.7	5	6.3
Crankcase Heater (W)		45									
Fitting Dimensions (mm)	Discharge Tube(ID)	12.81-12.99									
	Suction Tube(ID)	19.12-19.3									
Product Dimensions (mm)	Length (L)	239									
	Width (W)	239									
	Height (H)	392									
	Feet Dimensions (Hole)	190.5x190.5(8.8)									
Oil Type		POE									
Initial Charge Volume (L)		0.85									
Recharge Volume (L)		0.75									
Max Pressure (MPa)	High Side	3.2									
	Low Side	2									
Weight (kg)		23.5	24.3	24.6	24.8	24.8	25	25	26	26	26

E.T. -6.7°C, C.T. 48.9°C, R.G. 18.3°C, No Subcooling

Specifications R404A

Model		YM34E 2G-102	YM43E 2G-102	YM49E 2G-102	YM60E 2G-100	YM70E 2G-100	YM86E 2G-100	YM34E 1G-100	YM43E 1G-100	YM49E 1G-100	YM60E 1G-100	YM70E 1G-100	YM86E 1G-100
Electricity		220V/1~/50Hz						380-420V/3~/50Hz					
Power in Horse Power (HP)		2	2.5	3	3.5	4	5	2	2.5	3	3.5	4	5
Displacement (cc/rev)		33.3	42	46.6	58	67.8	83.3	33.3	42	46.6	58	67.8	83.3
Refrigerant		R404A											
Cooling Capacity (W)		3560	4250	4840	6100	6920	8500	3560	4250	4840	6100	6920	8500
Power in Watt (W)		1978	2361	2493	3220	3601	4427	2034	2297	2547	3220	3530	4250
COP (W/W)		1.80	1.76	1.94	1.89	1.92	1.92	1.75	1.85	1.9	1.89	1.96	2
Running Current (A)		9.4	11.2	11.5	14.6	16.9	21.2	3.5	4.8	5.1	6.5	7	8
LRA (A)		76	76	76	109	109	140	22	45	45	60	60	60
MOC (A)		16.2	17.2	19	24.5	28.1	33.4	5.2	6.4	6.9	8.5	10.3	12.2
Crankcase Heater (W)		70											
Fitting Dimensions (mm)	Discharge Tube(ID)	12.87-12.97											
	Suction Tube(ID)	22.35-22.45											
Product Dimensions (mm)	Length (L)	239											
	Width (W)	239											
	Height (H)	418					463	418					463
	Feet Dimensions (Hole)	190.5×190.5(8.8)											
Oil Type		POE											
Initial Charge Volume (L)		1.4											1.6
Recharge Volume (L)		1.25											1.45
Max Pressure (MPa)	High Side	3.2											
	Low Side	2											
Weight (kg)		31	31	31	33	33	38	29	30	30	31	31	32

E.T. -6.7°C, C.T. 48.9°C, R.G. 4.4°C, No Subcooling

Specifications R404A

Model		YM102E 1G-100	YM115E 1G-100	YMZ46 E1-100	YMZ83 E1-100	YMZ110 E1-100	YM125E 1G-100	YM132E 1G-100	YM158E 1G-100	YM182E 1G-100
Electricity		380-420V/3~/50Hz								
Power in Horse Power (HP)		6	7	3	5	7	7.5	8	9	10
Displacement (cc/rev)		98.3	108	46.6	83	108	115.5	123	145.4	167.2
Refrigerant		R404A								
Cooling Capacity (W)		10100	11328	4484	8200	11043	12240	12893	15842	17856
Power in Watt (W)		5050	5600	2487	4320	5768	6120	6447	7921	8928
COP (W/W)		2	2.02	1.80	1.90	1.91	2	2	2	2
Running Current (A)		9.4	11.2	5.1	7.9	10.8	11.8	12.1	13.6	15.5
LRA (A)		65	85	45	60	85	117	117	117	121
MOC (A)		14.3	17.1	6.9	13.1	17.1	17.3	18.4	21	23.6
Crankcase Heater (W)		70					90			
Fitting Dimensions (mm)	Discharge Tube(ID)	12.87-12.97					22.35-22.45			
	Suction Tube(ID)	22.35-22.45					28.83-28.93			
Product Dimensions (mm)	Length (L)	239		558.5		603.5	272			
	Width (W)	239		285			248			
	Height (H)	463		174			506.7			
	Feet Dimensions (Hole)	190.5×190.5(8.8)		220×280(8.8)			190.5×190.5(8.8)			
Oil Type		POE								
Initial Charge Volume (L)		1.6		1.4		1.6	2.7			3
Recharge Volume (L)		1.45		1.25		1.45	2.55			2.85
Max Pressure (MPa)	High Side	3.2								
	Low Side	2								
Weight (kg)		33	38	33	34	40	53	53	53	54

E.T. -6.7°C, C.T. 48.9°C, R.G. 4.4°C, No Subcooling

Specifications R404A

Model		YM200E 1G-100	YM210E 1G-100	YM240E 1G-105	YM260E 1G-100	YM280E 1G-100	YM350E 1G-100	YM410E 1G-100
Electricity		380-420V/3~/50Hz						
Power in Horse Power (HP)		12	13	14	15	16	22	25
Displacement (cc/rev)		189.1	197.1	210	246	265.5	332.8	392
Refrigerant		R404A						
Cooling Capacity (W)		19536	20544	22600	25000	28300	33300	39200
Power in Watt (W)		9671	10170	11600	12700	14100	16650	19400
COP (W/W)		2.02	2.02	1.95	1.97	2.01	2	2.02
Running Current (A)		16.3	16.9	20.6	22.8	26.4	29.4	34.5
LRA (A)		121	121	148.5	170	216	266	266
MOC (A)		26.5	27.6	31	32	40.3	41	55
Crankcase Heater (W)		90			120			
Fitting Dimensions (mm)	Discharge Tube(ID)	22.35-22.45			28.80-28.90			
	Suction Tube(ID)	28.83-28.93			41.56-41.66			
Product Dimensions (mm)	Length (L)	272			350.9			
	Width (W)	248			326.2			
	Height (H)	506.7	556.7	611.2	676.7			
	Feet Dimensions (Hole)	190.5×190.5(8.8)			232×232(8.8)			
Oil Type		POE						
Initial Charge Volume (L)		3	3.7	4.2	5.5			
Recharge Volume (L)		2.85	3.5	4	5.3			
Max Pressure (MPa)	High Side	3.2						
	Low Side	2						
Weight (kg)		54	54	57	95	100	100	104

E.T. -6.7°C, C.T. 48.9°C, R.G. 4.4°C, No Subcooling

Specifications R448A R449A

Model		YM34E 2G-102	YM43E 2G-102	YM49E 2G-102	YM60E 2G-100	YM70E 2G-100	YM86E 2G-100	YM34E 1G-100	YM43E 1G-100	YM49E 1G-100	YM60E 1G-100	YM70E 1G-100	YM86E 1G-100	YM102E 1G-100	YM115E 1G-100
Electricity		220V/1~/50Hz						380-420V/3~/50Hz							
Power in Horse Power (HP)		2	2.5	3	3.5	4	5	2	2.5	3	3.5	4	5	6	7
Displacement (cc/rev)		33.3	42	46.6	58	67.8	83.3	33.3	42	46.6	58	67.8	83.3	98.3	108
Refrigerant		R448A R449A													
Cooling Capacity (W)		3694	4410	5022	6329	7343	9020	3687	4401	5012	6317	7343	9020	10718	12021
Power in Watt (W)		1815	2166	2287	2954	3376	4150	1858	2098	2326	2941	3399	4100	4872	5464
COP (W/W)		2.04	2.04	2.2	2.14	2.18	2.17	1.98	2.1	2.15	2.15	2.16	2.2	2.2	2.2
Running Current (A)		8.3	9.9	10.5	13.6	15.5	19	3.7	4.1	4.6	5.8	6.3	7.6	9	10.1
LRA (A)		76	76	76	109	109	140	22	45	45	60	60	60	65	85
MOC (A)		13.8	16.5	17.4	22.5	27.2	33.5	5.4	6.1	6.8	8.6	10.4	12.5	14.9	15.8
Crankcase Heater (W)		70													
Fitting Dimensions (mm)	Discharge Tube(ID)	12.87-12.97													
	Suction Tube(ID)	22.35-22.45													
Product Dimensions (mm)	Length (L)	239													
	Width (W)	239													
	Height (H)	418						463	418						463
	Feet Dimensions (Hole)	190.5x190.5(8.8)													
Oil Type		POE													
Initial Charge Volume (L)		1.4												1.6	
Recharge Volume (L)		1.25												1.45	
Max Pressure (MPa)	High Side	3.2													
	Low Side	2													
Weight (kg)		31	31	31	33	33	38	29	30	30	31	31	32	33	38

E.T. -6.7°C, C.T. 48.9°C, R.G. 4.4°C, No Subcooling

Specifications R452A

Model		YM34E 2G-102	YM43E 2G-102	YM49E 2G-102	YM60E 2G-100	YM70E 2G-100	YM86E 2G-100	YM34E 1G-100	YM43E 1G-100	YM49E 1G-100	YM60E 1G-100	YM70E 1G-100	YM86E 1G-100	YM102E 1G-100	YM115E 1G-100	
Electricity		220V/1~/50Hz						380-420V/3~/50Hz								
Power in Horse Power (HP)		2	2.5	3	3.5	4	5	2	2.5	3	3.5	4	5	6	7	
Displacement (cc/rev)		33.3	42	46.6	58	67.8	83.3	33.3	42	46.6	58	67.8	83.3	98.3	108	
Refrigerant		R452A														
Cooling Capacity (W)		3560	4250	4840	6100	6920	8500	3560	4250	4840	6100	6920	8500	10100	11328	
Power in Watt (W)		1978	2361	2493	3220	3601	4427	2034	2297	2547	3220	3530	4250	5050	5100	
COP (W/W)		1.8	1.76	1.94	1.89	1.92	1.92	1.75	1.85	1.9	1.89	1.96	2	2	2.22	
Running Current (A)		9.4	11.2	11.5	14.6	16.9	21.2	3.5	4.8	5.1	6.5	7	8	9.4	11.2	
LRA (A)		76	76	76	109	109	140	22	45	45	60	60	60	65	85	
MOC (A)		16.2	17.2	19	24.5	28.1	33.4	5.2	6.4	6.9	8.5	10.3	12.2	14.3	17.1	
Crankcase Heater (W)		70														
Fitting Dimensions (mm)	Discharge Tube(ID)	12.87-12.97														
	Suction Tube(ID)	22.35-22.45														
Product Dimensions (mm)	Length (L)	239														
	Width (W)	239														
	Height (H)	418					463	418					463			
	Feet Dimensions (Hole)	190.5x190.5(8.8)														
Oil Type		POE														
Initial Charge Volume (L)		1.4											1.6			
Recharge Volume (L)		1.25											1.45			
Max Pressure (MPa)	High Side	3.2														
	Low Side	2														
Weight (kg)		31	31	31	33	33	38	29	30	30	31	31	32	33	38	

E.T. -6.7°C, C.T. 48.9°C, R.G. 4.4°C, No Subcooling

Specifications Variable Speed R290

Model		YIM38P1-100	YIM42P1-100	YIM50P1-100	YIM60P1-100	YIM72P1-100
Power Input to Inverter Driver		380-420V/3~/50Hz or 60Hz				
Displacement (cc/rev)		38	42	50	60	72
Refrigerant		R290				
Cooling Capacity (W)		5532	6105	7250	8585	10302
Power in Watt (W)		2505	2764	3282	3887	4664
COP (W/W)		2.21	2.21	2.21	2.21	2.21
Running Current (A)		5.3	5.6	6.6	7.3	8.9
MOC (A)		11.4	11.8	14	15	17.2
Rated Motor Speed (RPM)		4500				
Running Speed (RPM)		1200-6000				
Crankcase Heater (W)		70				
Fitting Dimensions (mm)	Discharge Tube(ID)	12.87-12.97				
	Suction Tube(ID)	22.35-22.45				
Product Dimensions (mm)	Length (L)	239				
	Width (W)	239				
	Height (H)	419				
	Feet Dimensions (Hole)	190.5×190.5(8.8)				
Oil Type		PAG				
Initial Charge Volume (L)		1.4				
Recharge Volume (L)		1.25				
Max Pressure (MPa)	High Side	2.3				
	Low Side	1.7				
Weight (kg)		28	28	28	28	29.5

E.T. -6.7°C, C.T. 48.9°C, R.G. 4.4°C, No Subcooling @4500 RPM

Model		YIM38P1-100	YIM42P1-100	YIM50P1-100	YIM60P1-100	YIM72P1-100
Motor Speed (RPM)		1800				
Cooling Capacity (W)		2091	2308	2777	3288	3946
Power in Watt (W)		969	1070	1359	1609	1931
Motor Speed (RPM)		3600				
Cooling Capacity (W)		4426	4884	5800	6868	8242
Power in Watt (W)		2004	2211	2626	3110	3731
Motor Speed (RPM)		5400				
Cooling Capacity (W)		6622	7308	8686	10285	12342
Power in Watt (W)		3074	3391	3978	4711	5653
Motor Speed (RPM)		6000				
Cooling Capacity (W)		7363	8126	9635	11409	13691
Power in Watt (W)		3454	3812	4473	5298	6357

E.T. -6.7°C, C.T. 48.9°C, R.G. 4.4°C, No Subcooling @1800 RPM, 3600 RPM, 5400 RPM & 6000RPM

Specifications Variable Speed R404A

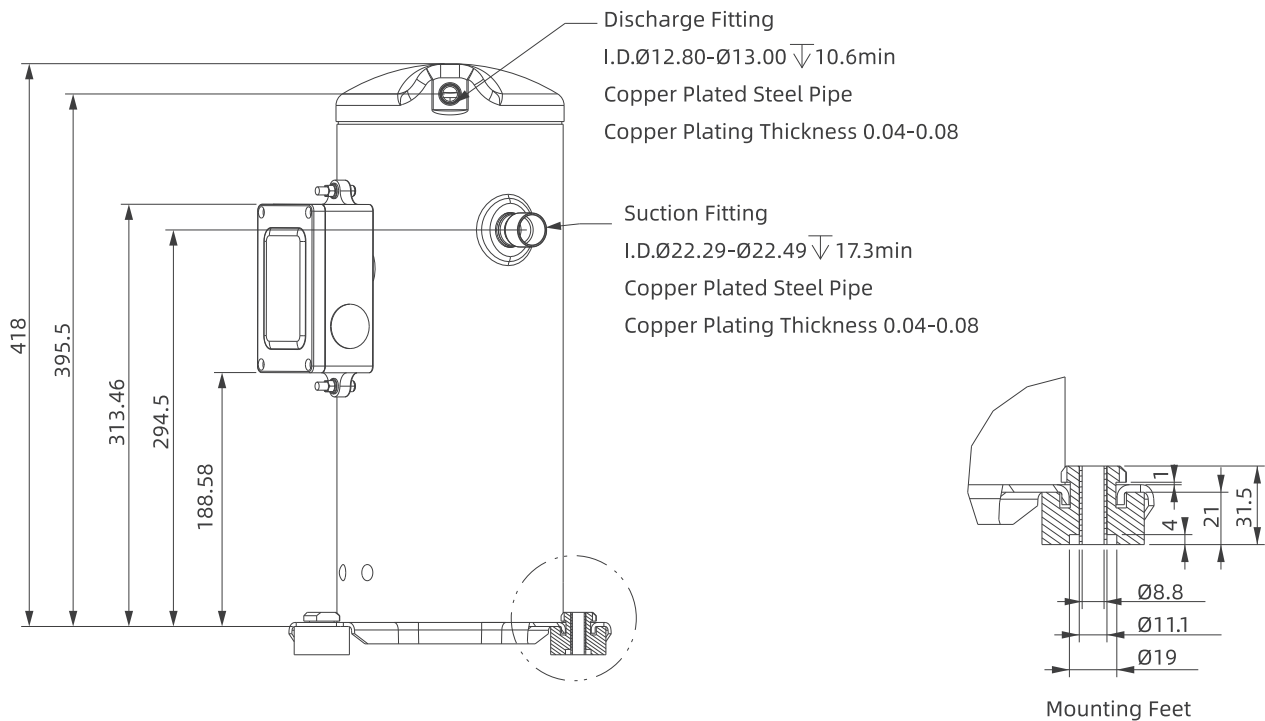
Model		YIM38E2G -100	YIM50E2G -100	YIM60E2G -100	YIM38E1G -100	YIM42E1G -100	YIM50E1G -100	YIM60E1G -100	YIM72E1G -100
Power Input to Inverter Driver		220V/1~/50Hz or 60Hz			380-420V/3~/50Hz or 60Hz				
Displacement (cc/rev)		38	50	60	38	42	50	60	72
Refrigerant		R404A							
Cooling Capacity (W)		6180	8254	9639	6240	6742	8480	9680	11500
Power in Watt (W)		3400	4410	5050	3375	3647	4300	4920	5910
COP (W/W)		1.82	1.87	1.91	1.85	1.85	1.97	1.97	1.95
Running Current (A)		5.3	18.3	21.7	5.3	5.8	7.2	8.5	11.2
MOC (A)		24.9	24.9	24.9	10	11	12.5	15	20
Rated Motor Speed (RPM)		4500							
Running Speed (RPM)		1800-5400							
Crankcase Heater (W)		70							
Fitting Dimensions (mm)	Discharge Tube(ID)	12.87-12.97							
	Suction Tube(ID)	22.35-22.45							
Product Dimensions (mm)	Length (L)	239							
	Width (W)	239							
	Height (H)	419							
	Feet Dimensions (Hole)	190.5×190.5(8.8)							
Oil Type		POE							
Initial Charge Volume (L)		1.4							
Recharge Volume (L)		1.25							
Max Pressure (MPa)	High Side	3.2							
	Low Side	2							
Weight (kg)		27	27	27	29.5	29.5	29.5	29.5	29.5

E.T. -6.7°C, C.T. 48.9°C, R.G. 4.4°C, No Subcooling @4500 RPM

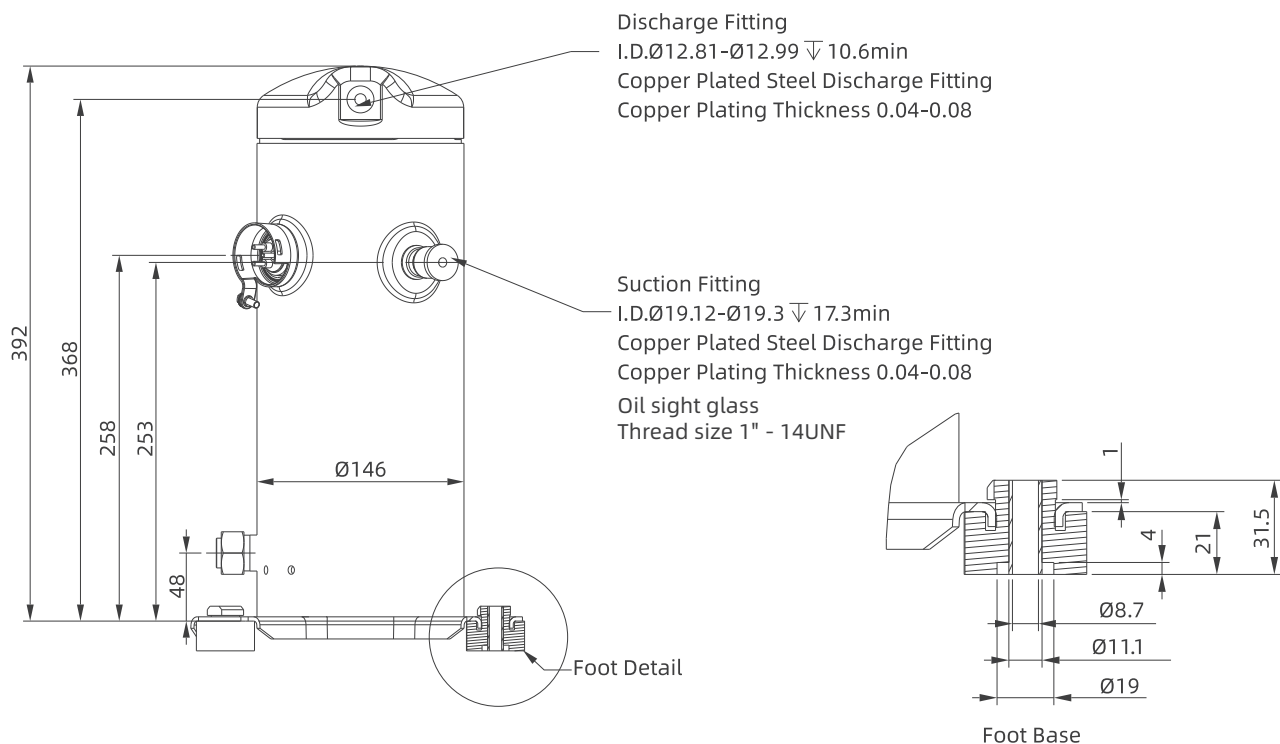
Model	YIM38E2G -100	YIM50E2G -100	YIM60E2G -100	YIM38E1G -100	YIM42E1G -100	YIM50E1G -100	YIM60E1G -100	YIM72E1G -100
Motor Speed (RPM)	1800							
Cooling Capacity (W)	2324	3145	3653	2346	2535	3231	3669	4485
Power in Watt (W)	1438	1821	2081	1428	1543	1776	2027	2494
Motor Speed (RPM)	3600							
Cooling Capacity (W)	4944	6603	7711	4992	5394	6784	7744	9200
Power in Watt (W)	2720	3528	4040	2700	2918	3440	3936	4728
Motor Speed (RPM)	5400							
Cooling Capacity (W)	7472	9872	11470	7544	8151	10142	11519	13651
Power in Watt (W)	4117	5389	6156	4087	4417	5255	5997	7163

E.T. -6.7°C, C.T. 48.9°C, R.G. 4.4°C, No Subcooling @1800 RPM, 3600 RPM & 5400 RPM

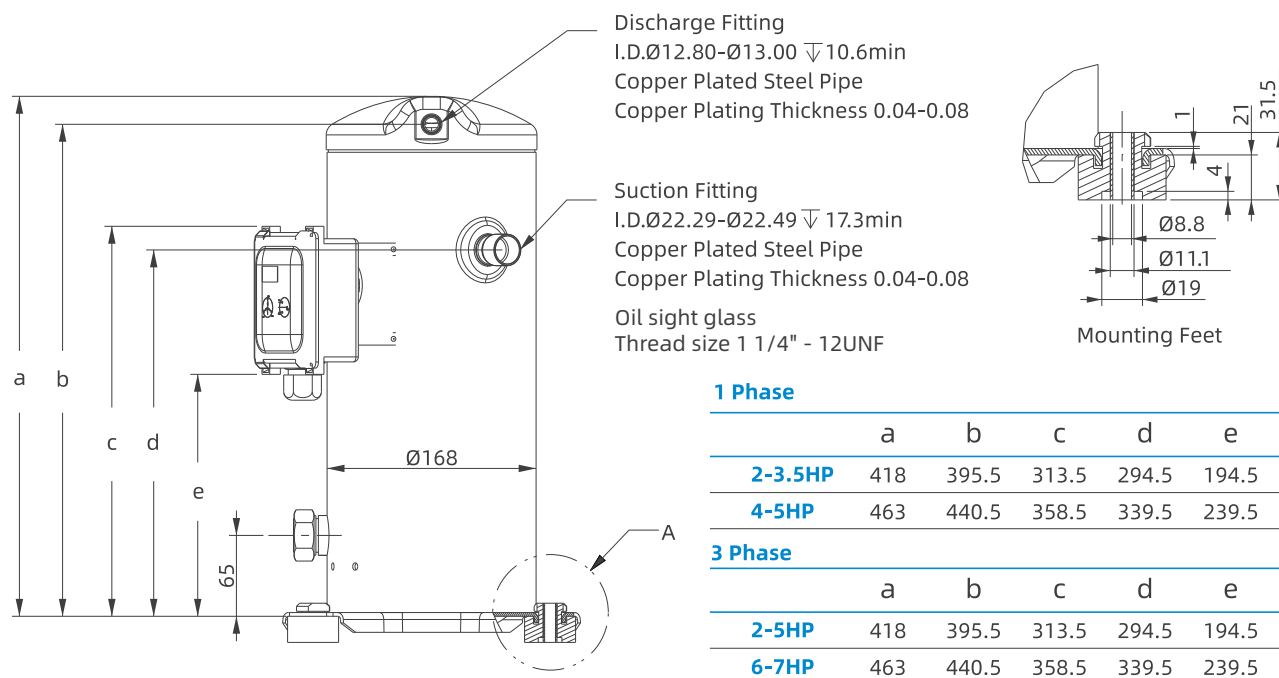
Dimensions R290 2-7HP



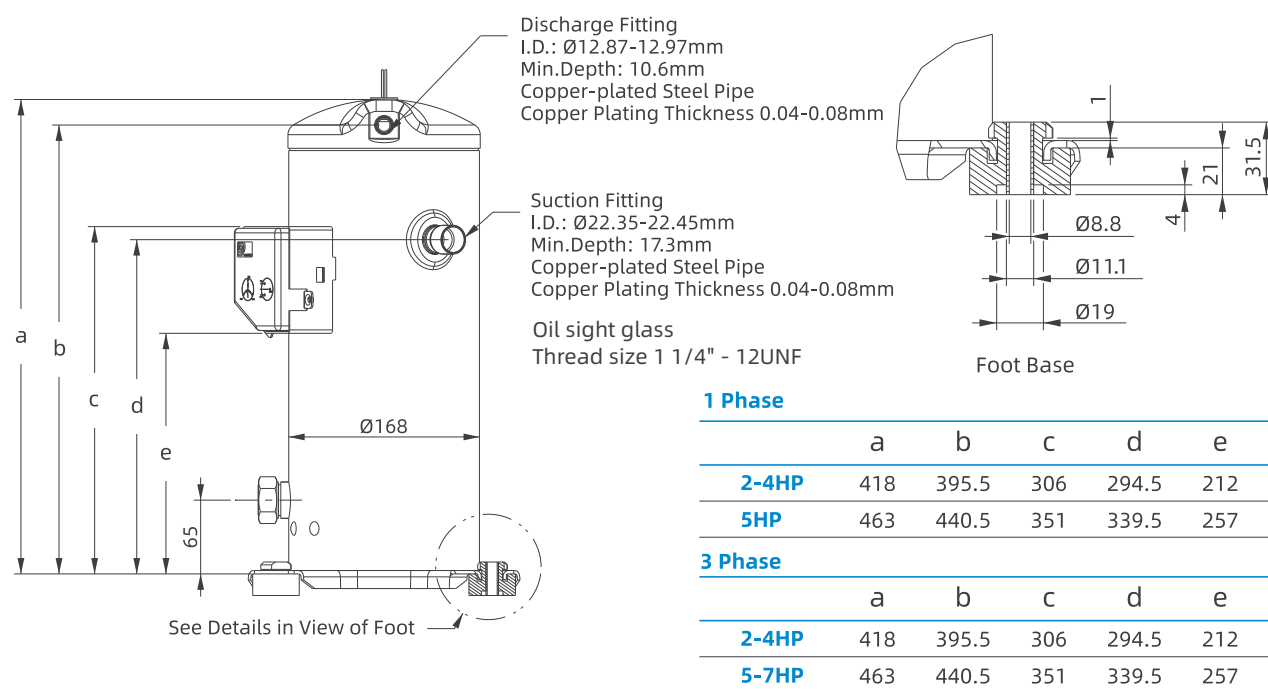
Dimensions YS07-20



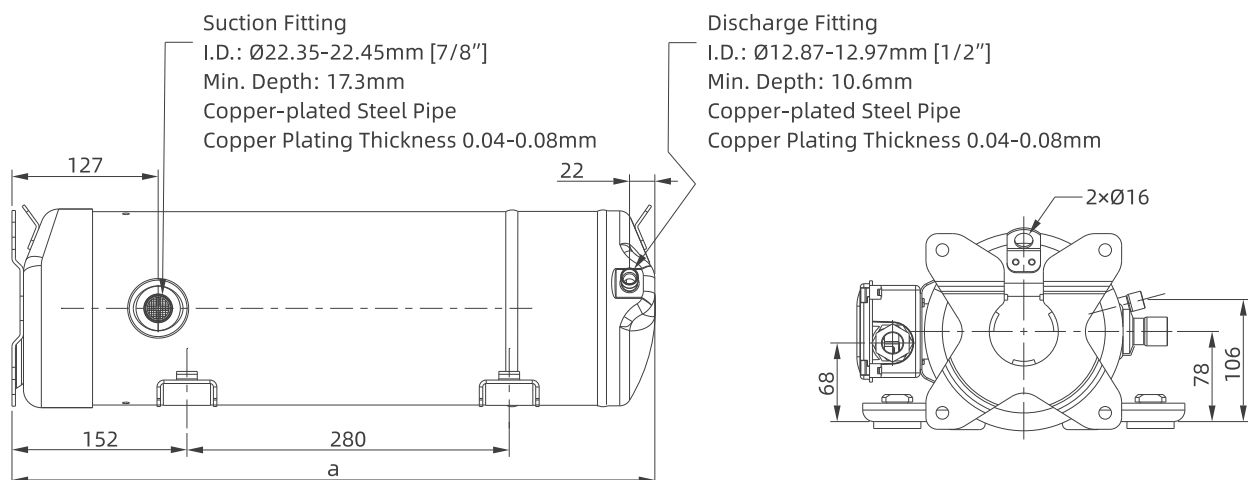
Dimensions R454C R455A 2-7HP



Dimensions 2-7HP

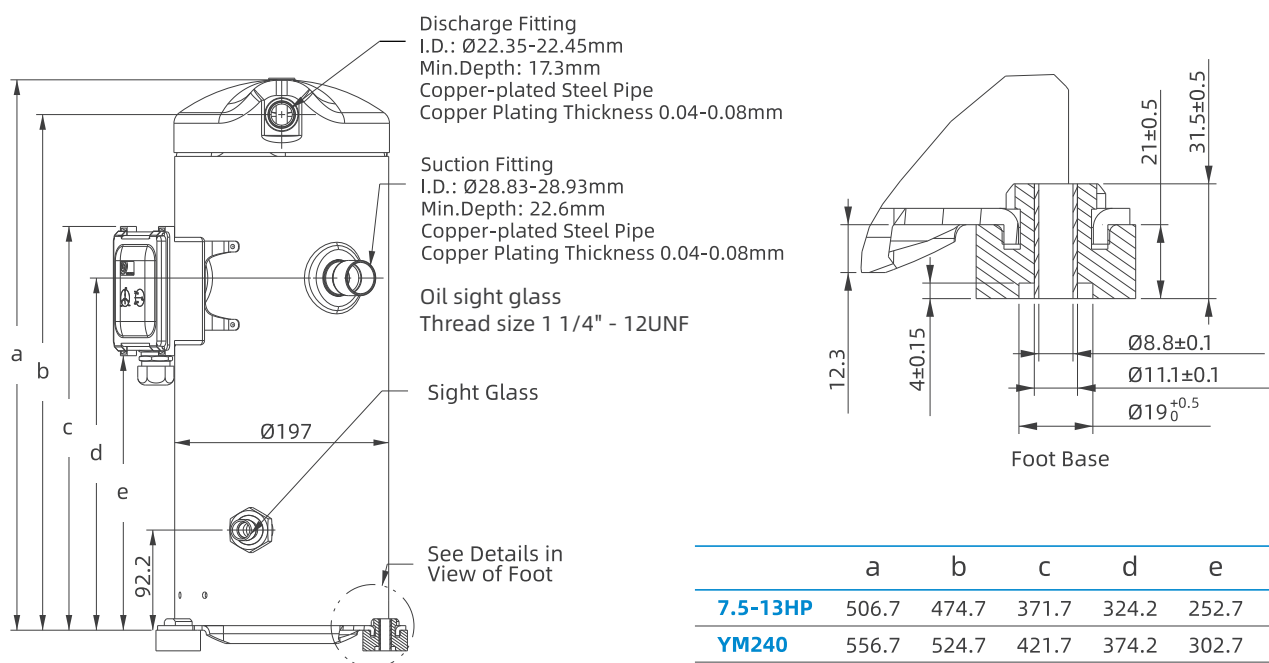


Dimensions Horizontal YMZ46-110



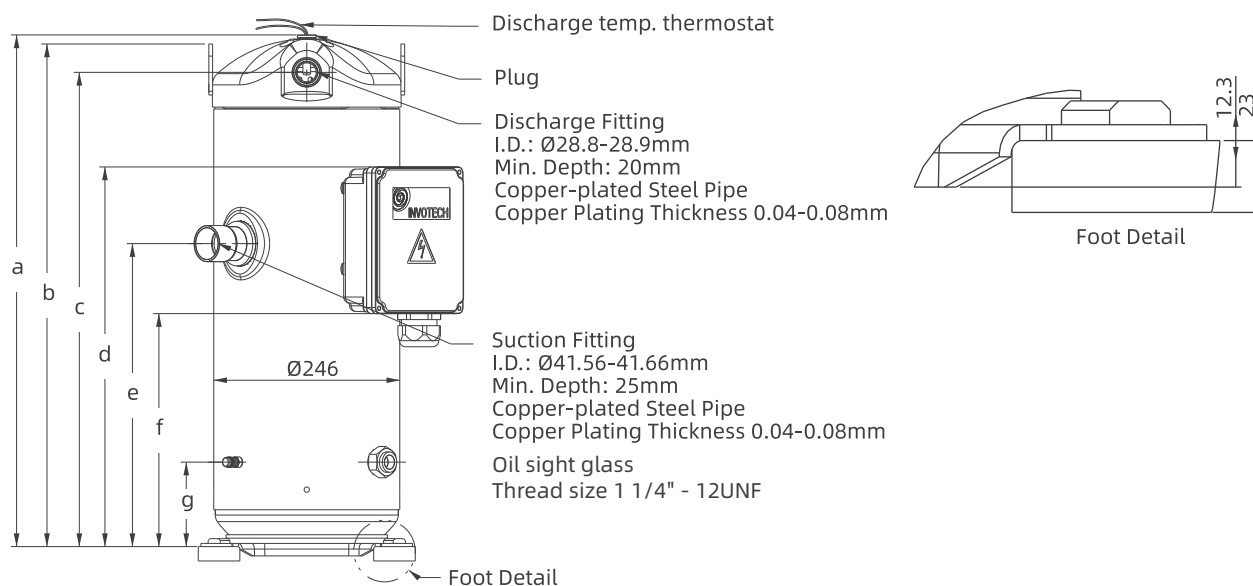
	a
YMZ46/83	558.5
YMZ110	603.5

Dimensions 7.5-14HP



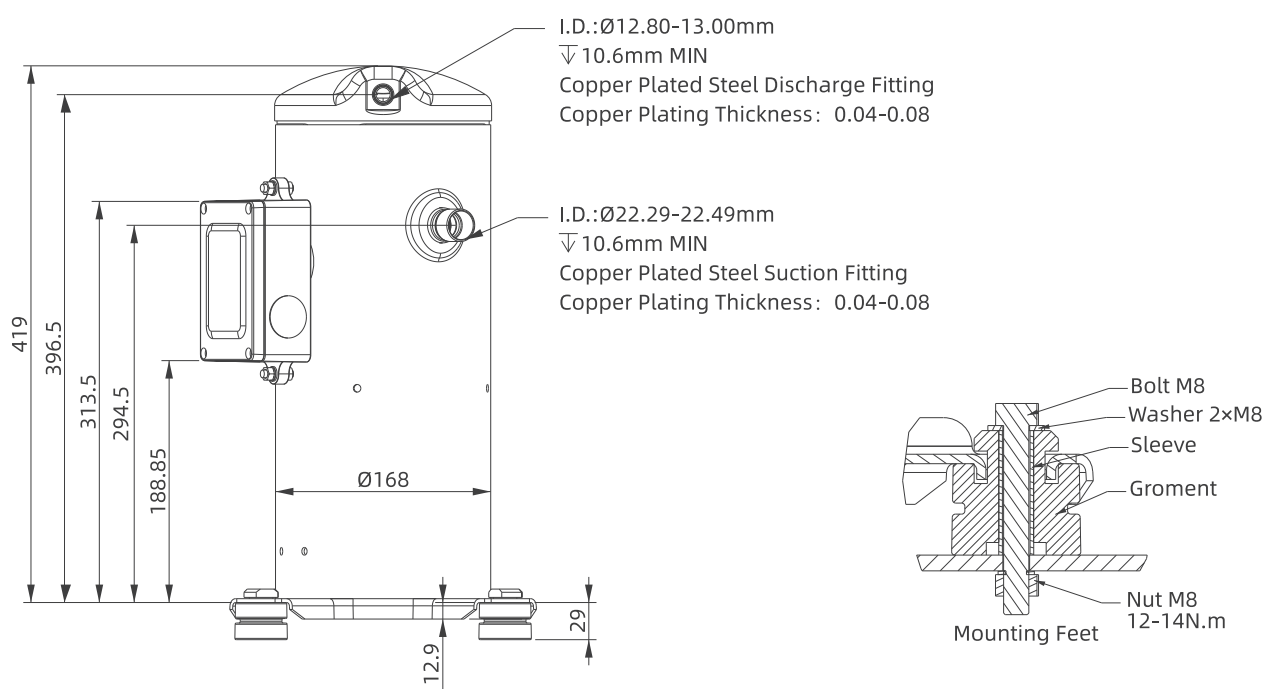
	a	b	c	d	e
7.5-13HP	506.7	474.7	371.7	324.2	252.7
YM240	556.7	524.7	421.7	374.2	302.7

Dimensions 15-25HP



	a	b	c	d	e	f	g
YM260	611.2	604.7	567.2	442.1	340.7	248.1	83.7
16-25HP	676.7	664.7	627.2	502.1	400.7	308.1	111.7

Dimensions Variable Speed R290 YIM38-72



Dimensions Variable Speed YIM38-72

