

HTD30AE DELTA LBP Compressor Top Efficiency R600a 115-127V 60Hz

General

Code number (pre-assembled RSIR start equipment)	CDO00120
Approvals	UL984
Compressors on pallet	168

Application

Application	LBP		
Frequency	Hz	50	60
Evaporating temperature	°C	-	-35 to -5
Voltage range	V	-	95 to 135
Max. condensing temperature continuous (short)	°C	-	60 (70)
Max. winding temperature continuous (short)	°C	-	120 (130)

Cooling requirements

Frequency	Hz	50			60		
Application		LBP	MBP	HBP	LBP	MBP	HBP
32°C		-	-	-	S	-	-
38°C		-	-	-	S	-	-
43°C		-	-	-	S	-	-
Remarks on application:							

Motor

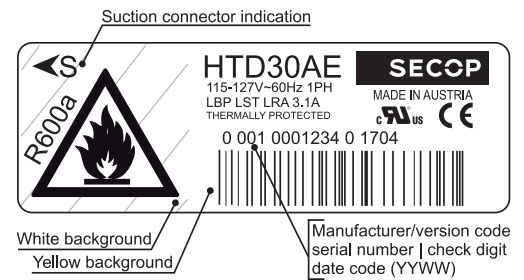
Motor type	RSCR/RSIR		
LRA (rated after 4 sec. UL984), HST LST	A	-	2.7
Cut in Current, HST LST	A	-	7.4
Resistance, main start winding (25°C)	Ω	17.0	21.5

Design

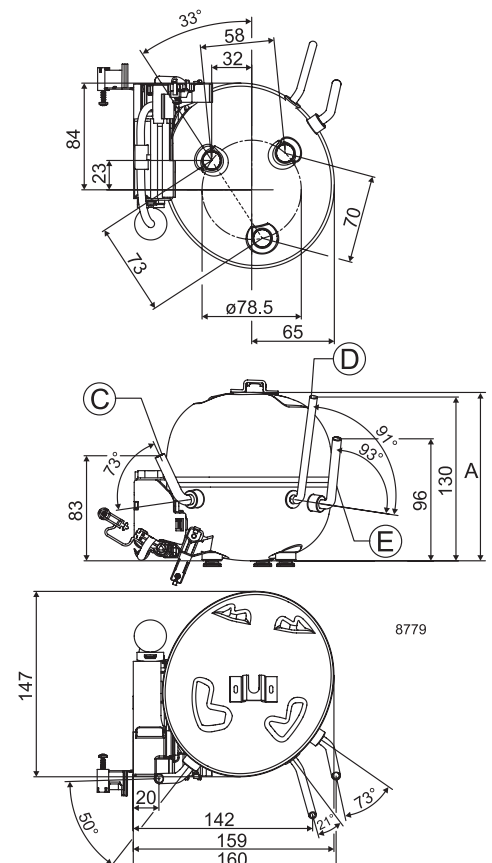
Displacement	cm ³	3.0
Oil quantity (type)	cm ³	84 (mineral)
Maximum refrigerant charge	g	150
Free gas volume in compressor	cm ³	837
Weight without electrical equipment	kg	3.6

Dimensions

Height	mm	A	133
		B	-
Suction connector	location/I.D. mm angle	C	6.2 73°
	material comment		Copper Rubber plug
Process connector	location/O.D. mm angle	D	6.0 91°
	material comment		Copper Rubber plug
Discharge connector	location/I.D. mm angle	E	5.0 93°
	material comment		Cu-plated steel Rubber plug
Oil cooler connector	location/I.D. mm angle	F	-
	material comment		-
Connector tolerance	I.D. mm		±0.1
Remarks:			



- S = Static cooling normally sufficient
- O = Oil cooling
- F₁ = Fan cooling 1.5 m/s
(compressor compartment temperature equal to ambient temperature)
- F₂ = Fan cooling 3.0 m/s necessary
- SG = Suction gas cooling normally sufficient
- = not applicable in this area



CECOMAF LBP

115V, 60Hz, PTC consumption incl., static cooling

Evap. temp. in °C	-45	-40	-35	-30	-25	-23.3	-20	-15	-10	-6.7	-5	0	5	7.2	10	15	20
Capacity in W			26.4	37.9	51.6	56.8	67.8	86.9	109	126	135						
Power cons. in W			25.2	29.4	33.4	34.8	37.6	42.1	47.1	50.8	52.9						
Current cons. in A			0.14	0.16	0.18	0.18	0.19	0.21	0.24	0.25	0.26						
COP in W/W			1.05	1.29	1.54	1.63	1.80	2.07	2.32	2.48	2.55						

ASHRAE LBP

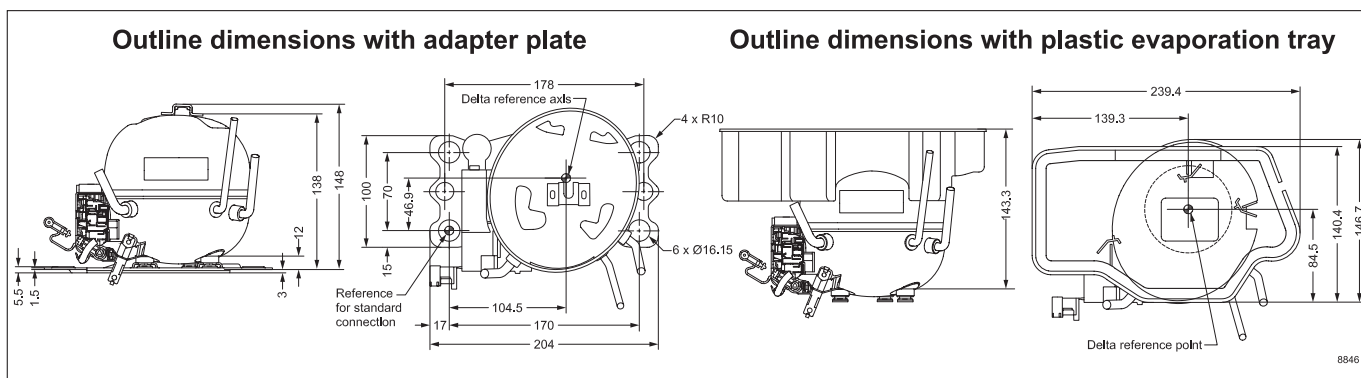
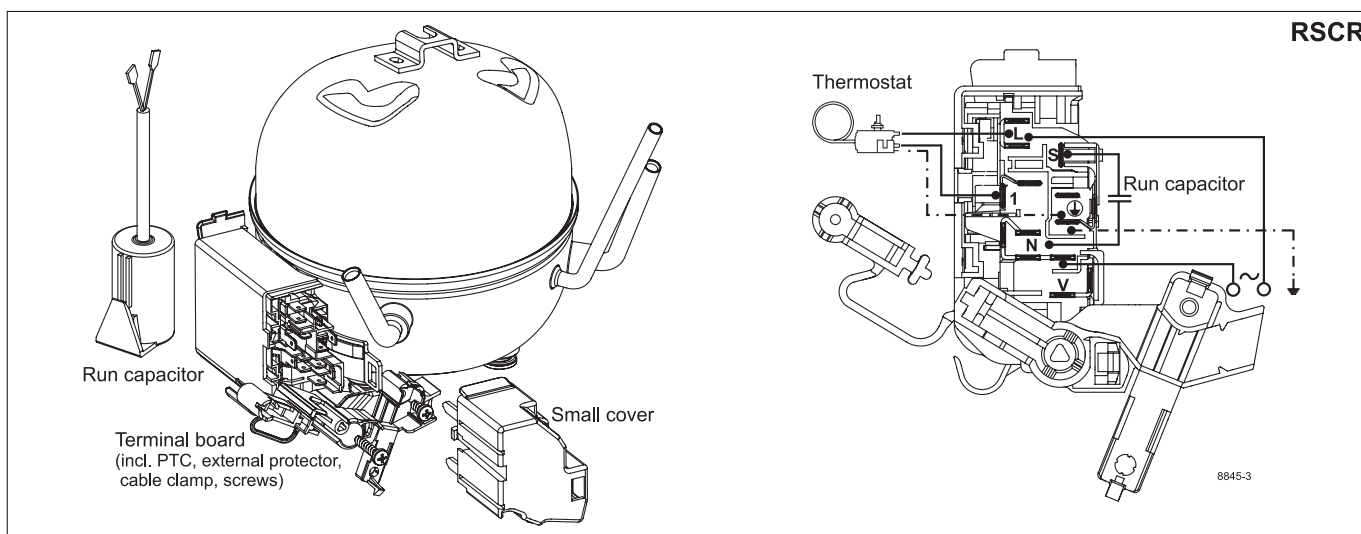
115V, 60Hz, PTC consumption incl., static cooling

Evap. temp. in °C	-45	-40	-35	-30	-25	-23.3	-20	-15	-10	-6.7	-5	0	5	7.2	10	15	20
Capacity in W			29.2	42.1	57.2	63.0	75.2	96.4	121	140	150						
Power cons. in W			25.2	29.3	33.4	34.8	37.6	42.0	47.1	50.8	52.9						
Current cons. in A			0.14	0.16	0.18	0.18	0.19	0.21	0.24	0.25	0.26						
COP in W/W			1.16	1.43	1.71	1.81	2.00	2.29	2.57	2.75	2.84						

ASHRAE LBP

115V, 60Hz, RC 2.0µF, PTC consumption incl., static cooling

Evap. temp. in °C	-45	-40	-35	-30	-25	-23.3	-20	-15	-10	-6.7	-5	0	5	7.2	10	15	20
Capacity in W			29.5	42.5	57.8	63.7	76	97.4	122	141	152						
Power cons. in W			24.8	28.9	32.9	34.2	37.0	41.4	46.3	50.0	52.0						
Current cons. in A			0.13	0.15	0.17	0.18	0.19	0.21	0.23	0.25	0.26						
COP in W/W			1.19	1.47	1.76	1.86	2.06	2.35	2.64	2.82	2.91						



Accessories for	HTD30AE	Code number	Test conditions	CECOMAF LBP	ASHRAE LBP
Run capacitor (optional)	4.8 mm spade connectors	2.0 µF	Condensing temperature	45°C	45°C
Small cover (compulsory, delivered separately)		163806_	Ambient temperature	32°C	32.2°C
Adapter plate		157008_	Suction gas temperature	32°C	32.2°C
Evaporator tray		162531_	Liquid temperature	no subcooling	32.2°C

Spare parts for	HTD30AE	Code number	Mounting accessories (for adapter plate)	Code number
Terminal board (incl. PTC, external protector, cable clamp, screws)	4.8 mm spade connectors	BK E1	Bolt joint for one comp.	Ø: 16 mm 118-1917
Motor protector	AE25FJ6	E1	Bolt joint in quantities	Ø: 16 mm 118-1918
			Snap-on in quantities	Ø: 16 mm 118-1919

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