

OPERATION:

Application: L.B.P.

Refrigerant: R134a

Operation: Capillary

Cooling: Static

Max. Ambient Temp: 43°C

(1) Max. Steady Discharge Temp: 120°C

(1,2) Max. Peak Discharge Temp: 135°C

Max. Steady Condensing Temp: 60°C

(2) Max. Peak Condensing Temp: 70°C

Max. Winding Temp: 130°C

Max. Impurities: 30 mg

Max.Total Compressor Water Content: 100 mg

COMPRESSOR:

Displacement: 7.52 cc

Bore: 23.6 mm

Stroke: 17.2 mm

Oil Type: Ester

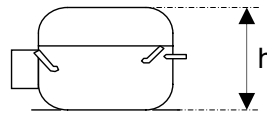
(4) Viscosity: 15 cSt

Suction Muffler: Semi-direct

(3) Net Wt: 8.6 kg

Case Size: 2 (h = 169.5 mm)

Oil Charge: 180 cc

**ELECTRICAL:**

Power Supply: 220 - 240V

Voltage Limits: 187 - 264V

Frequency: 50 Hz

Phase: 1 ph

Motor Type: RSIR / RSCR *

Locked Rotor Current: 12.5 / 7.0 A**

Main Winding Resistance at 25°C: 9.5 Ω

Start Winding Resistance at 25°C: 20.8 Ω

* With Optional Run Capacitor

** Maximum current / Measured after 4 seconds

(1) Measured 5cm. from the shell with insulated thermocouples

(2) For transient conditions during 'Pull Down'

(3) Net weight is with oil but without electrics

(4) Measured at 40°C

For rated performance,

the suction line must be connected to the stub marked 'AS' on the attached drawing.

ELECTRICAL COMPONENTS:

ZEM Starting Device:	PTC- 8100	
(1) ZEM Starting Device:	PTC - 7100D7	
ZEM PTC Resistance:	14 Ω	
'Combo' PTC Resistance:	14 Ω	ECC Starting Device: K 100-xx
Run Capacitor:	4.0 μ F	

-xx Protector short code

PROTECTORS:

PROTECTORS	BDG $\frac{3}{4}$	Combo	Electrica $\frac{3}{4}$	Texas 4TM
Type	AE 11 FU x	C2-319 NFBYY xx	T 0490 / kk	4TM 319 NFBYY xx
Open °C	115 - 125 °C	115 - 125 °C	125 - 135 °C	115 - 125 °C
Close °C	71 - 53 °C	70 - 52 °C	70 - 55 °C	70 - 52 °C
U.T.C	2.80 A 70 °C	2.74 A 70 °C	2.67 A 70 °C	2.74 A 70 °C
Time Check Current	9.40 A	12.0 A (5-15s)	9.40 A	12.0 A (5-15s)
Max. Current	20.0 A	24.8 A (2s max.)	18.0 A	24.8 A (2s max.)
Code (if any)	FA	2C	AD or CH	6P

Alt. protectors: AF 11 FU x
D7

BDG 'x' Codes: 6 for terminal boards Mod.89,90
8 for terminal board Mod.91
4 for UH protector with 6.3mm fast-on
5 for UH protector with M3.5 screw

Electrica 'kk' Codes: 05 for terminal boards Mod.89,90
07 for terminal board Mod.91
C5 for UH protector with M3.5 screw
C6 for UH protector with 6.3mm fast-on

Texas 4TM 'xx' Codes: .. for different contact versions

Combo 'xx' Codes: .. for different contact versions

The combined PTC and 4TM protector 'COMBO' is not for use with UH terminal boards.

4TM protectors are for use with UH and ECC terminal boards only.

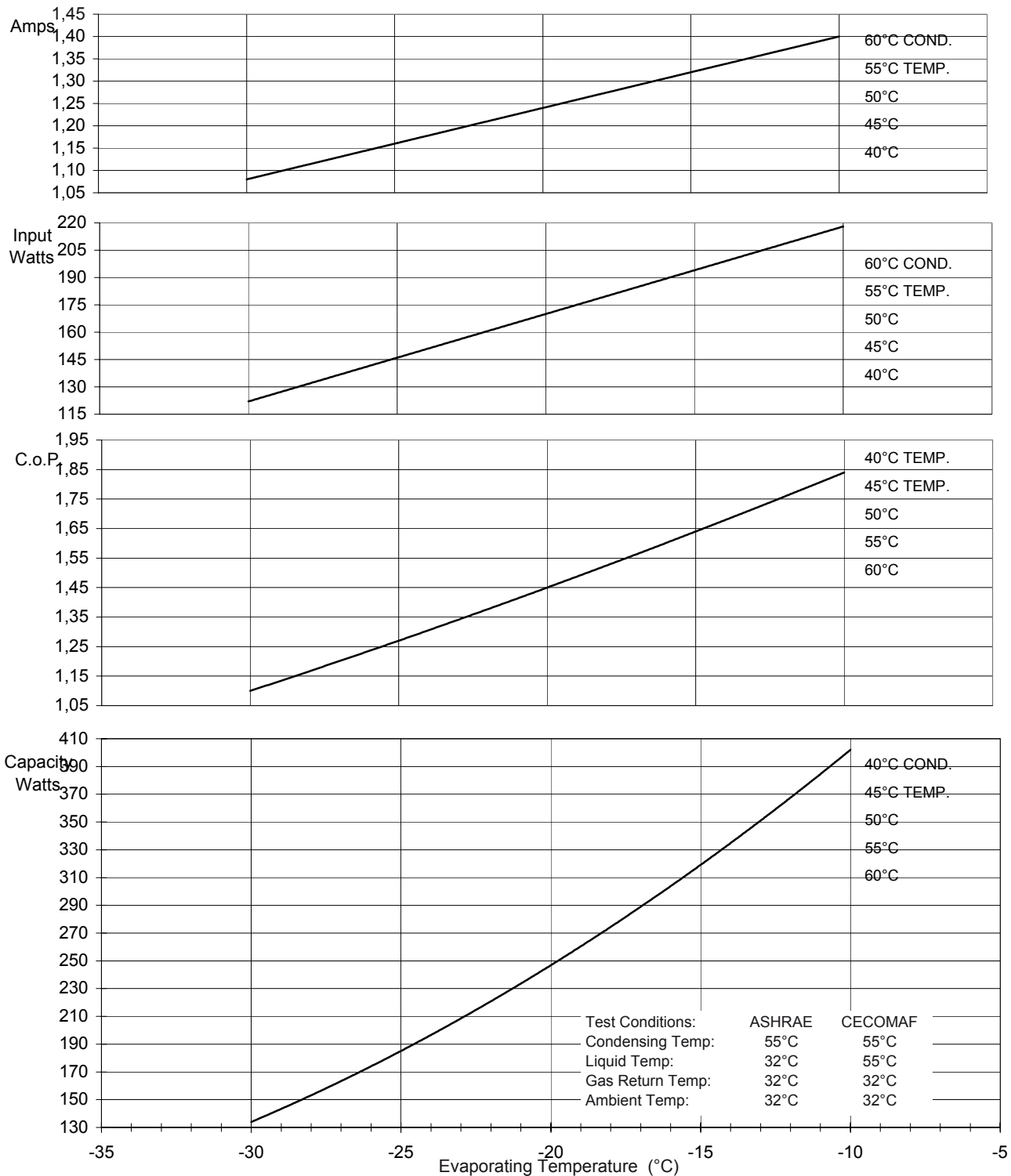
Protectors with M 3.5 screws can be used on UH electric housings type SP-1454 (with connection board)

and SP-1821 (without connection board). See drawings ELECTRICAL ASSEMBLY (FOR UH) number FTC15;16;17;18.

$\frac{3}{4}$ protectors with 6.3mm fast-on can only be used on UH electric housing type SP-1821 (without connection board).

PERFORMANCE:

(Graphs are at ASHRAE conditions)

220V 50Hz Without run capacitor**ASHRAE:**

Evaporating Temperature °C	-30	-25	-23,3	-20	-15	-10
Capacity W	134	185	205	247	319	402
C.o.P. W / W	1,10	1,27	1,33	1,45	1,64	1,84

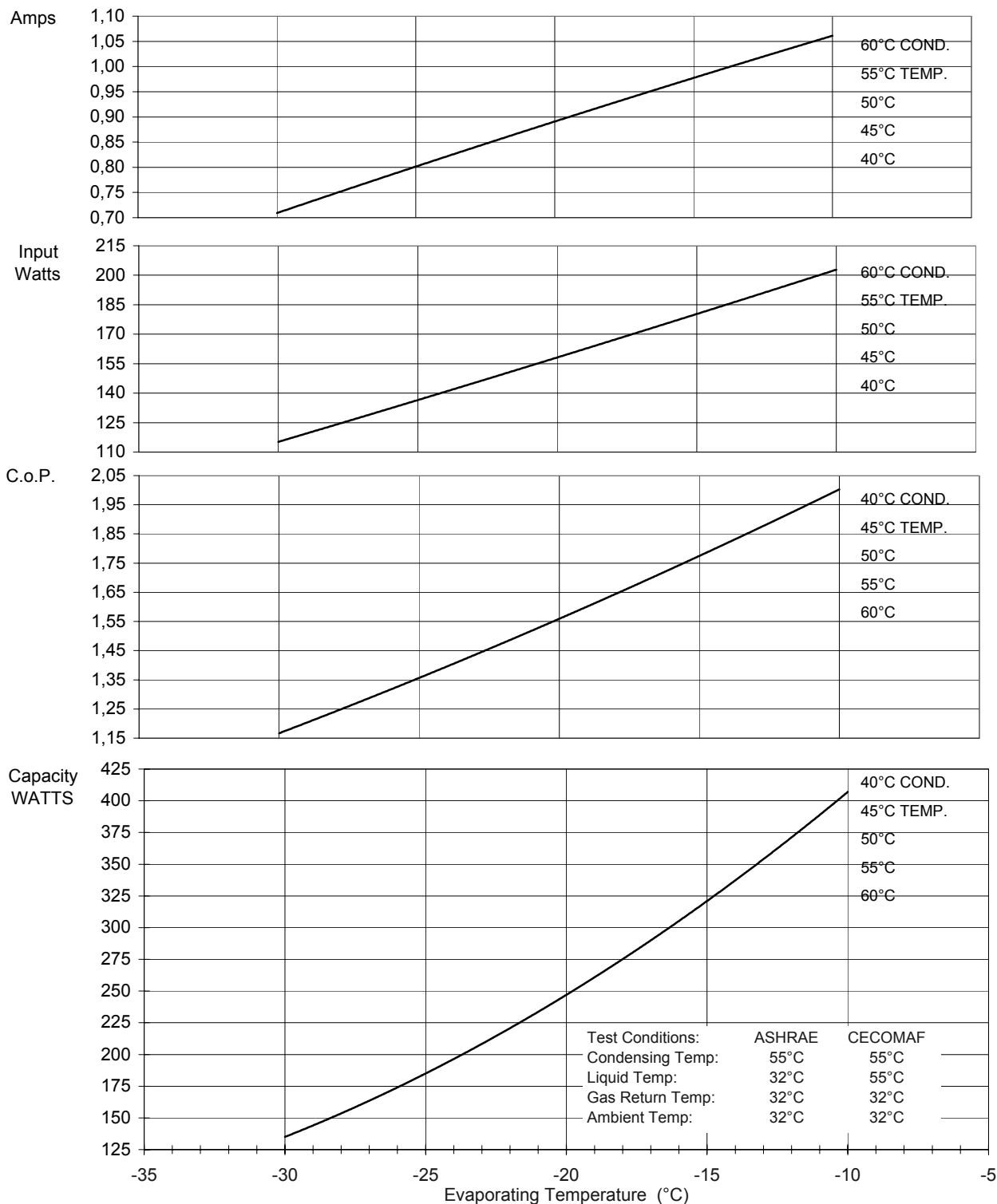
CECOMAF:

Evaporating Temperature °C	-30	-25	-23,3	-20	-15	-10
Capacity W	109	150		201	260	327
C.o.P. W / W	0,89	1,02		1,18	1,34	1,50
Input Power W	122	146	154	170	194	218
Current A	1,08	1,16	1,19	1,24	1,32	1,40

PERFORMANCE:

(Graphs are at ASHRAE conditions)

220V 50Hz With run capacitor



Test Conditions:	ASHRAE	CECOMAF
Condensing Temp:	55°C	55°C
Liquid Temp:	32°C	55°C
Gas Return Temp:	32°C	32°C
Ambient Temp:	32°C	32°C

	Evaporating Temperature °C	-30	-25	-23,3	-20	-15	-10
ASHRAE:	Capacity W	135	185	205	247	321	407
	C.o.P. W / W	1,17	1,35	1,42	1,56	1,78	2,00
CECOMAF:	Capacity W	110	150		201	262	331
	C.o.P. W / W	0,96	1,09		1,27	1,46	1,63
	Input Power W	115	137	144	158	180	203
	Current A	0,71	0,80	0,83	0,89	0,98	1,06