



# TME 34

VALEO ELECTRICAL COMPRESSOR  
FOR AIR CONDITIONING AND BATTERY COOLING



Compact  
Lightweight  
Best in Class NVH  
Fully in-house compressor  
Heat pump and battery cooling functions



SMART TECHNOLOGY FOR SMARTER MOBILITY



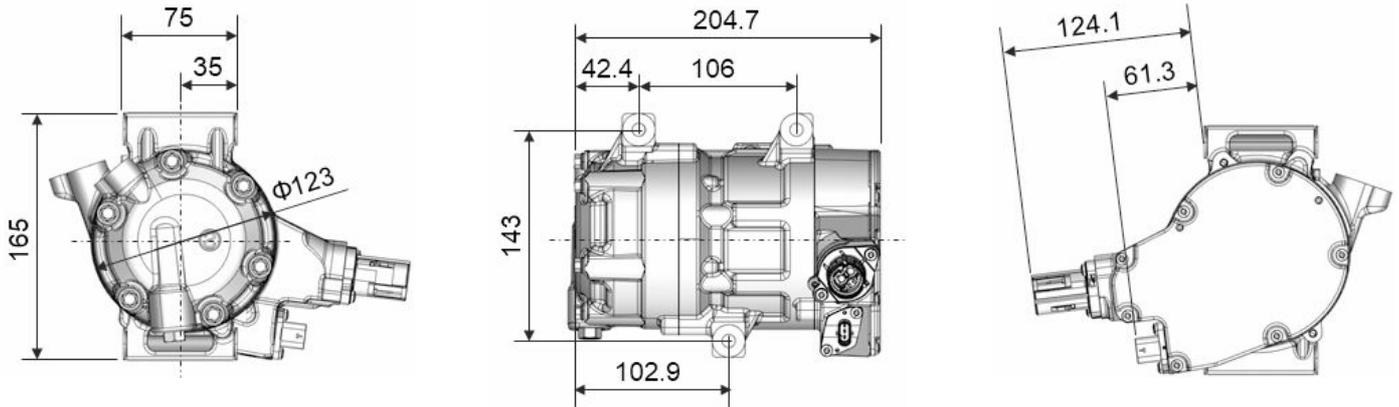
## PRODUCT CHARACTERISTICS

GENERAL ITEMS	
COMPRESSOR TYPE	Horizontal scroll
MOTOR TYPE	Brushless DC Motor
USAGE	Cabin / Battery cooling and heat pump
SCROLL TIGHTNESS	Wear plate and top seal
DISPLACEMENT	33.5 cc
SHELL TYPE	Low pressure
SPEED	600-9000 rpm
WEIGHT	6.3 kg
SIZE	ø=123mm L=205mm
MOUNTING	VDA-L and multiple possibilities
VOLTAGE RANGE	200-470 V
CONTROL VOLTAGE	12 V (Min 8 - Max 16)
OPERATING TEMPERATURE	-30 degC / +125 degC (start = -25 degC / +125 degC)
COMMUNICATION	LIN
EMC	CISPR 2.5 - Radiated emission Class 5 above 2MHz
REFRIGERANT	R134a / R1234yf / R404A
OIL	POE (RG100EV) (150cc)

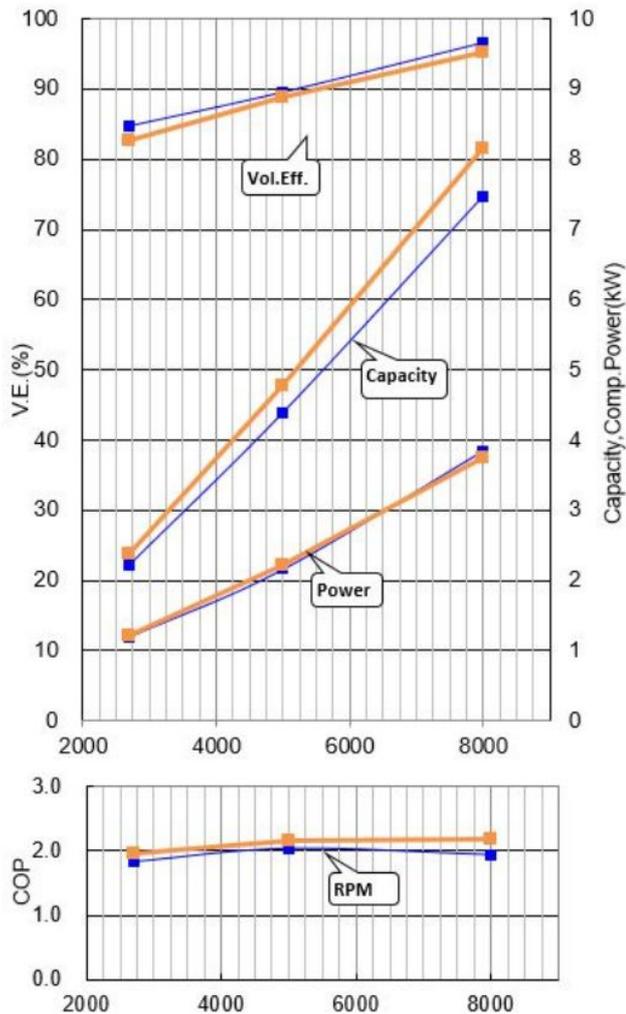
SAFETY ITEMS	
BURST PRESSURE	Discharge = 99 bar abs Suction = 45 bar abs
SAFETY VALVE PRESSURE	Discharge = 93 bar abs Suction = 31 bar abs

OTHERS	
WORKING PRESSURE	0.11 MPaG < > 3.0 MPaG
DISCHARGE TEMPERATURE	Max = 130 degC
MOUNTING ANGLE	+/- 20 degC Max

## DESIGN



## PERFORMANCES CURVES - R134a and 1234YF



- **R134A :**

Pd/Ps = 1.40/0.20MPaG,  
SC/SH = 5/10°C, N=2700,5000,8000,r/min

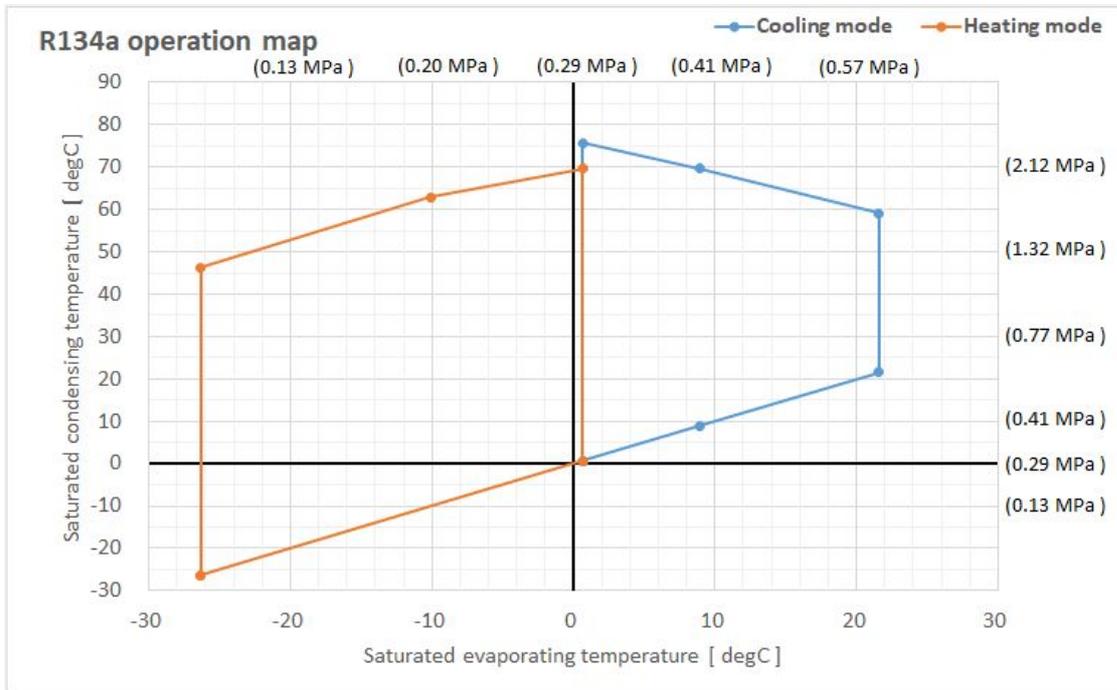
- **1234YF**

Pd/Ps = 1.38/0.22MPaG,  
SC/SH = 5/10°C, N=2700,5000,8000,r/min

## OPERATING MAP

The Valeo **TME 34** must be operated within the green area shown on **Table 1 (R134a)** and **Table 2 (R404a)** :

**Table 1:**



**Table 2:**

