

# Unicla® eDrive™

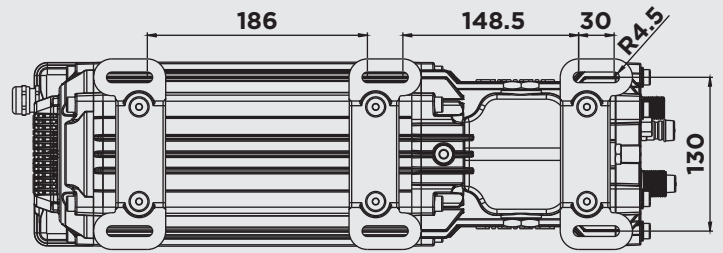
## UD200 600 V dc

Part number	UD200
Motor series	Model 200 (600 V dc)
Refrigerant application	High pressure
Motor speed range	800-1850 rpm
Optimal operating speed	1850 rpm
Displacement	200.4cc / rev
Number of cylinders	10
Nominal weight	26 kg
Max pressure	LP 7 bar // HP 25 bar
Relief valve	32 bar
Suction connection size	7/8 - 14 UNF #10
Discharge connection size	3/4 - 16 UNF #8

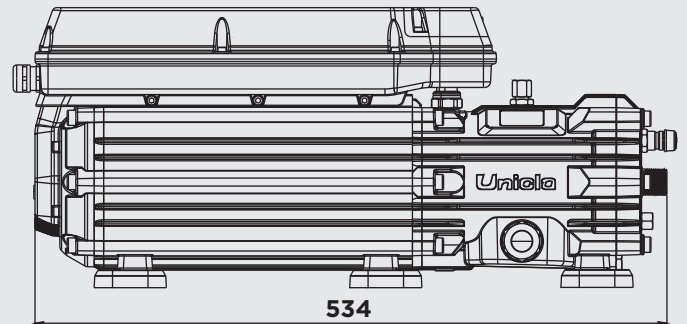
### Connection pattern



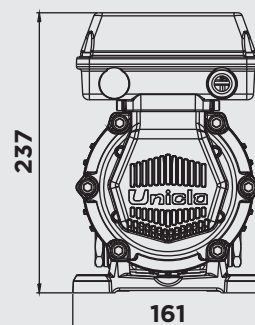
Oil return fitting	7/16-20 UNF male flare
Oil type	PAG56 (Unidap 7)
Oil fill (factory)	250cc
Operating voltage	480-720 V dc
Current	8.25 A
Power	4500 W
Maximum operating ambient temperature (with ambient air flow)	45°C
Maximum operating ambient temperature (with additional air flow)	55°C
Enclosure class (controller housing & motor/compressor)	IP55/IP68
Power supply gland	Nickle plate M20x1.5
Electrical certification date	16/10/2021
Communication & control interfaces	CAN, RS485, USB, Ethernet, Bluetooth, 0-10 V dc, 4-20 mA, Run/Stop
Nominal dimensions L x W x H (mm)	534 x 161 x 237



**Bottom view**



**Side view**



**Front view**

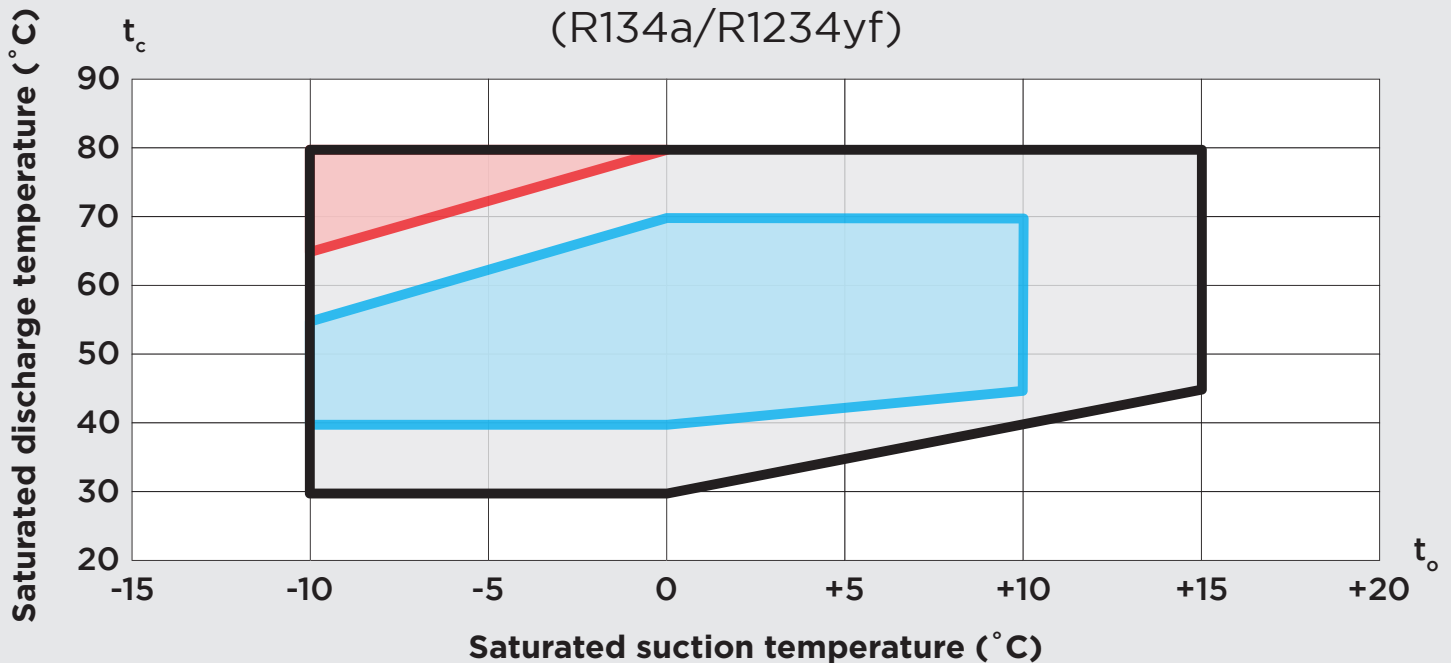


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## Operational limits (R134a/R1234yf)



- Operational limit
- Ideal operation
- Operation with maximum 20K superheat at suction

$t_c$  = Condensing temperature  
 $t_o$  = Evaporating temperature

### R134a

Model	Cond. T	Evap. T			kW
		-5	0	5	
UD200	40	8.6	10.7	13.6	Ca.
		2.9	3.4	3.6	PC
	50	7.0	8.7	11.2	Ca.
		3.3	3.6	3.9	PC
	60	5.7	7.3	9.2	Ca.
		3.4	3.8	4.1	PC

### R1234yf

Model	Cond. T	Evap. T			kW
		-5	0	5	
UD200	40	8.3	10.2	13.1	Ca.
		2.8	3.2	3.4	PC
	50	6.5	7.6	10.5	Ca.
		3.1	3.1	3.6	PC
	60	5.1	6.7	8.4	Ca.
		3.2	3.4	3.7	PC

# Unicla® eConnect™

**A two-way conversation. At last.**

Harness the true power of eDrive with eConnect, the interface between man and machine. eConnect is a multi-platform digital suite that communicates directly with eDrive, providing a wealth of data and information.

