

# 12-24 V DC DUAL DC/AC compressors

# New DC compressor range for mobile applications



- > More compact
- > Easy to install
- > Extensive application range (LBP and LMHBP)
- > Dual power supply option (12-24V DC and 100-240 V AC)
- > R134a and R600a



## New DC compressor Range

Many vehicles for transportation of goods or recreation, such as trucks, caravans, boats, cars, etc. are often equipped with cooling appliances. The compressors for such mobile applications must be designed to operate from a low voltage DC power supply. These compressors must also be compact in their dimensions, highly reliable and yield high performances.

For this reason, Huayi Compressor Barcelona has introduced a new range of DC compressors. This new range is formed by several models working with R134a and R600a and able to work with DC and AC current. This is Cubigel Compressors®'s answer to the needs of users requiring comfort and reliability in their travelling, either on holidays, at work or in any other circumstance where a DC powered refrigerator is utilized. These compressors are designed to operate silently, efficiently and reliably even up to angles of tilt of 30°, and with a wide range of operating working conditions as they can be used in freezers, refrigerator, coolers and air conditioning.



### R134a DC Voltage Compressors

MODEL	DISPLACEMENT cm3	APPLICATION	MOTOR TYPE	VOLTAGE FREQUENCY	SPEED rpm	REFRIGERATION CAPACITY	
						ASHRAE32 conditions	
						Cooling Capacity W	COP W/W
DM14H	1.40	LBP	BLDC	12-24V DC	2000	16	0.80
					2500	22	0.86
					3000	29	0.87
					3500	40	1.00
DW16H	1.60	LBP	BLDC	12-24V DC	2000	20	0.90
					2500	24	0.92
					3000	31	0.94
					3500	44	1.10
DL19H	1.90	LMHBP	BLDC	12-24V DC	2000	29	1.08
					2500	40	1.16
					3000	52	1.18
					3500	57	1.21
DL22H	2.20	LMHBP	BLDC	12-24V DC	2000	38	1.16
					2500	45	1.19
					3000	59	1.21
					3500	66	1.23
DL30H	3.00	LMHBP	BLDC	12-24V DC	2000	51	1.22
					2500	63	1.26
					3000	82	1.27
					3500	90	1.24
DL35H	3.50	LBP	BLDC	12-24V DC	2000	64	1.20
					2500	79	1.23
					3000	103	1.26
					3500	110	1.25



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						ASHRAE32 conditions	
						Cooling Capacity W	COP W/W
VDL19H	1.90	LMHBP	BLDC	12-24V DC 100-240V 50/60Hz	2000	29	1.08
					2500	40	1.16
					3000	52	1.18
					3500	57	1.21
VDL22H	2.20	LMHBP	BLDC	12-24V DC 100-240V 50/60Hz	2000	38	1.16
					2500	45	1.19
					3000	59	1.21
					3500	66	1.23

### R600a DC Voltage Compressors

MODEL	DISPLACEMENT cm3	APPLICATION	MOTOR TYPE	VOLTAGE FREQUENCY	SPEED rpm	REFRIGERATION CAPACITY	
						ASHRAE32 conditions	
						Cooling Capacity W	COP W/W
DL30C	3.00	LBP	BLDC	12-24V DC	2000	32	1.20
					2500	39	1.22
					3000	51	1.24
					3500	55	1.25
DL35C	3.50	LBP	BLDC	12-24V DC	2000	39	1.30
					2500	48	1.32
					3000	62	1.34
					3500	70	1.35
DK52C (**)	5.20	LBP	BLDC	12-24V DC	2000	60	1.30
					2500	74	1.32
					3000	96	1.34
					3500	100	1.35
DK60C (**)	6.00	LBP	BLDC	12-24V DC	2000	70	1.30
					2500	86	1.32
					3000	111	1.34
					3500	115	1.35
DK70C	7.00	LBP	BLDC	12-24V DC	2000	80	1.40
					2500	98	1.42
					3000	128	1.44
					3500	135	1.45
DK90C	9.00	LBP	BLDC	12-24V DC	2000	100	1.40
					2500	123	1.42
					3000	160	1.44
					3500	175	1.45

(\*\*) Model under development

### R600a DC DUAL Voltage Compressors

MODEL	DISPLACEMENT cm3	APPLICATION	MOTOR TYPE	VOLTAGE FREQUENCY	SPEED rpm	REFRIGERATION CAPACITY	
						ASHRAE32 conditions	
						Cooling Capacity W	COP W/W
VDL30C	3.00	LBP	BLDC	12-24V DC 100-240V 50/60Hz	2000	32	1.20
					2500	39	1.22
					3000	51	1.24
					3500	55	1.25
VDL35C	3.50	LBP	BLDC	12-24V DC 100-240V 50/60Hz	2000	39	1.30
					2500	48	1.32
					3000	62	1.34
					3500	70	1.35





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