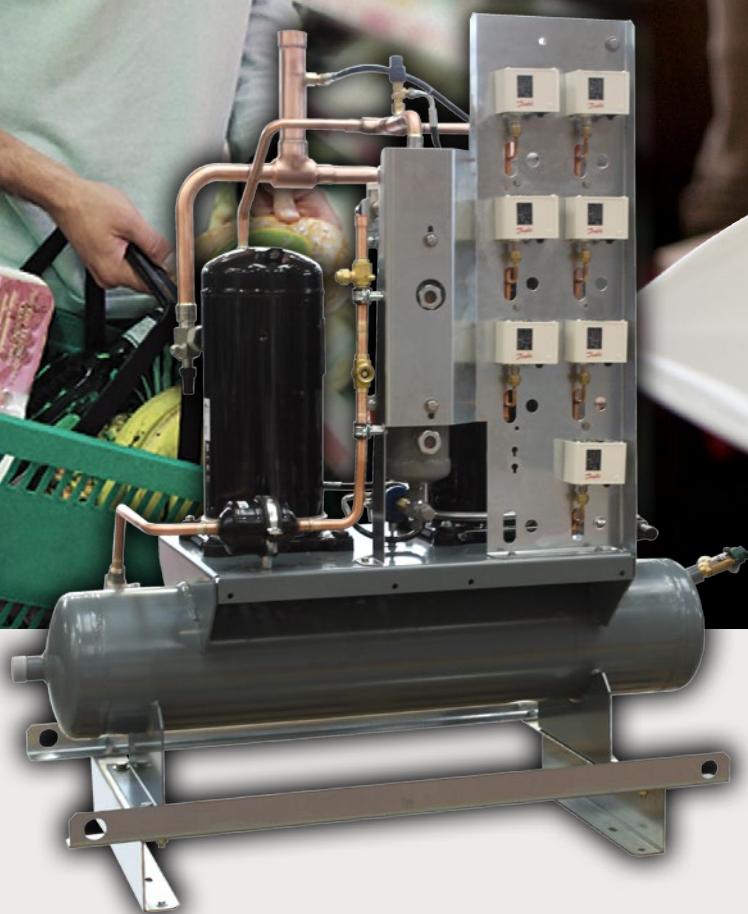


COMPRESSOR RECEIVER RACK

SCROLL COMPRESSORS

Bars - Restaurants - Corner shops - Mini-markets



HFC

8 > 55 kW

DUO MR

- A range specially designed to meet the needs and expectations of today's market, in particular with regard to compactness, reliability and noise level.
- The unit comprises 2 Scroll compressors, one of which DIGITAL™, enabling modulation of power according to multiple-station configurations.
- Supplied complete and ready to install.



www.lennoxemea.com

FRIGA-BOHN

HK[®]
REFRIGERATION

DESCRIPTION

Compressors

- 2 Scroll technology compressors, one of which equipped with a DIGITAL™ power controller.
- Equipped with shut-off valves on the suction and delivery sides, casing heater and rigid suspension elements.
- Unit factory pre-wired with a 3 m supply cable possible.

Collectors

- Copper suction and delivery pipes.

Oil line

- HP oil separator incorporated into the oil tank with high and low level indicators.
- HP oil return line with filter.
- Electronic oil level controller.

Liquid receiver

- Horizontal receiver with a capacity of 40L.
- 2 inlet/outlet shut-off valves.
- Liquid outlet equipped with a dryer filter, an indicator and a liquid outlet valve.
- Single safety valve.

Monitoring devices

- 1 general LP safety pressure switch.
- 1 LP regulator pressure switch per compressor.
- 1 automatic-reset HP pressure switch per compressor.
- 2 HP regulator pressure switches.
- 1 LPE and HPE support pressure switch (switch-over to back-up mode).
- 1 LP sensor.

Electrical enclosure (optional)

- Idc 15kA.
- Main isolator switch.
- Electronic control per PLC EC2-552.
- Pressure control value in back-up mode with anti-run cycle timer.
- Switch-over to back-up operation:
 - **Automatic** with LPE/HPE support pressure switches.
 - **Manual** with a switch on the electrical enclosure door.
- 5 cooling station outputs 2x10A
- 1 or 2 condenser fan outlets:

		Control		
Type	Model	Operation	LP	HP
AC	Three phase NEOSTAR SU 16Y L02 B2 CCT 2x12T B2	Normal	EC2-552	Pressure control switch
		Back-up	Pressure control switch	-
EC	Single phase CCT 2x10M B5	Normal	EC2-552	Pressure control or voltage variation
		Back-up	Pressure control switch	-
CCV 1		Normal	EC2-552	EC2-552 (+ 1 CDP)
		Back-up	Pressure control switch	FCM (+ 1 CDP)



DESIGNATION

DUO MR (1) **45** (2)

(1) Compressor receiver rack

(2) Compressor model

CERTIFICATIONS



ADVANTAGES

Installation

Unit ready to install, all components are factory pre-fitted.

Back-up operation with integrated pressure control switch.

Electrical elements supplied complete allowing rapid installation.

Supports enabling easy handling of the unit.



Kit	Factory
CDP	
RPC	
ARM	DPS
COQ	

OPTIONS

Control

HP pressure sensor, signal 4-20 mA (condenser EC - CCV 1)

Condensation pressure regulation with voltage variation (condenser CCT 2x10M B5)

Control cabinet

Complete electrical enclosure

3 additional cooling station outputs 2x 10A

Miscellaneous

Noise insulation casing

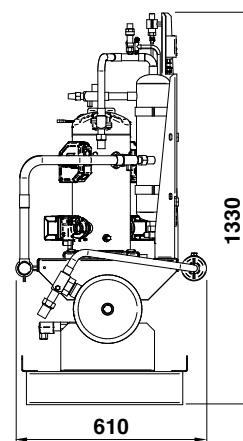
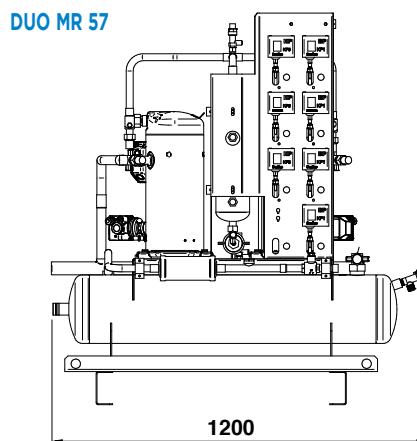
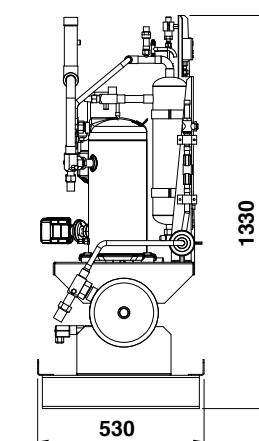
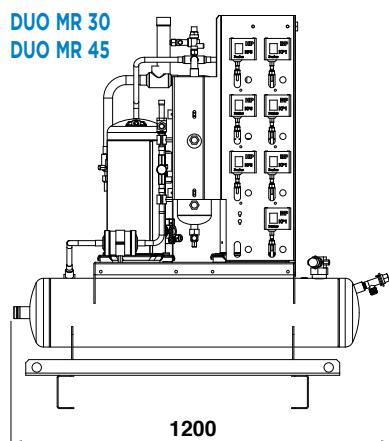
DUO MR - Scroll compressor receiver rack

FRIGA-BOHN HK REFRIGERATION

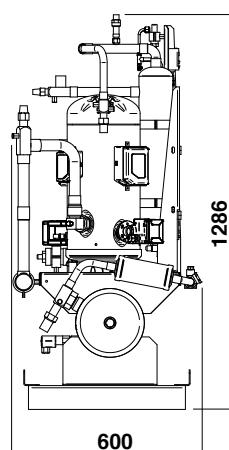
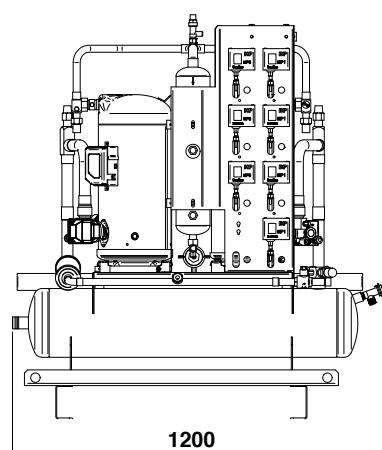
-10°C/+42°C *		DUO MR ...	30	45	57	76	114
Compressor type			ZB30+ZBD30	ZB45+ZBD45	ZB57+ZBD57	ZB76+ZBD76	ZB114+ZBD114
Capacity*	R404A	kW	14,3	20,9	27,2	37,6	53,9
	R134a	kW	8,6	12,5	15,7	21,3	31,6
	R407F	kW	14,2	20,8	27,0	38,2	54,7
	R407A	kW	13,9	19,8	27,0	35,6	50,0
	R448A	kW	14,1	20,7	26,7	36,6	52,9
	R449A	kW	14,1	20,6	26,7	36,6	52,8
Input power *	R404A	kW	6,1	8,8	11,1	15,8	23,6
	R134a	kW	3,7	5,2	7,2	9,6	13,9
	R407F	kW	6,0	8,7	11,0	15,2	22,8
	R407A	kW	5,8	8,2	11,0	14,5	21,7
	R448A	kW	5,7	8,0	9,9	14,2	22,2
	R449A	kW	5,7	8,0	9,9	14,2	22,2
Compressor	Nb		2	2	2	2	2
Input current*	R404A	A max.	15,8	24,2	28,0	40,8	66,6
Receiver volume		l.	40	40	40	40	40
Acoustic	Lp 10m**	dB(A)	41	43	50	48	53
Connections	Suction	Ø	1"5/8	1"5/8	1"5/8	2"1/8	2"1/8
	Discharge	Ø	7/8"	7/8"	7/8"	1"1/8	1"1/8
	Liquid inlet	Ø	7/8"	7/8"	7/8"	7/8"	1"1/8
	Liquid outlet	Ø	5/8"	5/8"	5/8"	1"1/8	1"1/8
Weight	kg		196	200	210	260	275

* Evaporation temperature / condensation temperature - Superheating 10K, subcooling 3K.

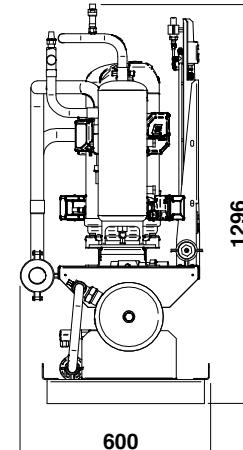
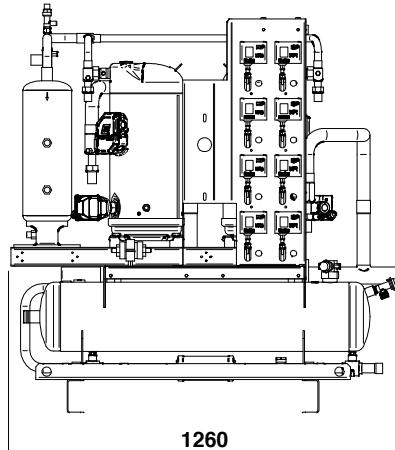
** Acoustic pressure level at 10 m given for information only.



DUO MR 76



DUO MR 114

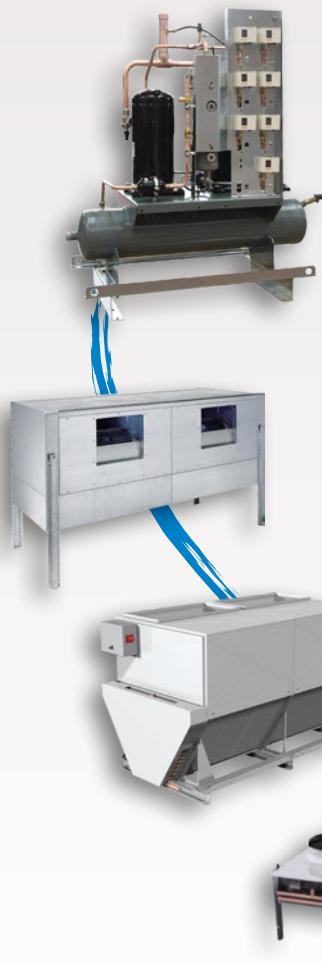


A complete solution for your refrigeration installation...

COMPRESSOR RECEIVER RACK

DUO MR

- Variation of power enabling precise adjustment of the capacity according to cooling requirement.
- Electronic oil regulation with oil separator with 2 l. receiver for safety and reliability.
- 40 l. largely dimensioned liquid receiver.
- Factory pre-wired with a 3 m cable.
- Noise insulation casing (optional) for a lower noise level: - 6 dB(A).



INDOOR CONDENSERS

CCT 2x12T B2

- Available air pressure up to 150 Pa.
- 8 air inlet/outlet combinations.
- The unit may be dismantled for installation in difficult access zones.
- Factory pre-wired fans.

CCV 1

- EC motors for optimised energy consumption.
- Low noise
- Available air pressure up to 200 Pa.
- The unit may be dismantled for installation in difficult access zones.
- Factory pre-wired fan.

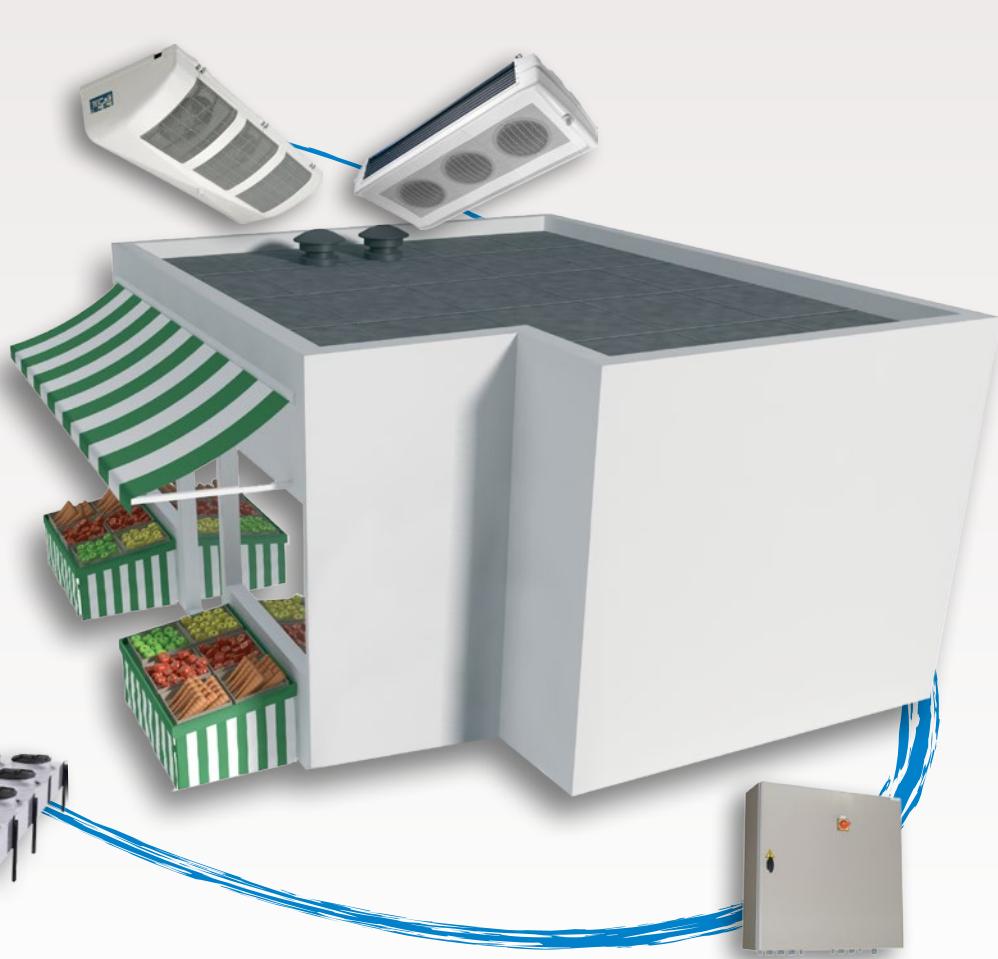
UNIT COOLERS

MR

- Low depth: only 209 mm enabling optimum use of storage space in the cold room.
- Robust and corrosion-resistant unit: coils totally anti-corrosion treated as standard, ABS casing and stainless steel screws.

TA

- Exceptionally low noise levels with the 6 or 8-pole versions.
- Low air speed guarantees comfort as well as precise control of temperature and hygrometry.
- Robust ABS casing with rounded corners combining hygiene and safety.



OUTDOOR CONDENSER

NEOSTAR SU 16Y LO2 B2

- Perfect incorporation in an urban environment, extremely quiet motors (Lp 22 dB(A) at 10m).
- Factory pre-wired fans.

ELECTRICAL ENCLOSURE

Electronic control EC2-552 with switch-over to back-up operation with automatic pressure control switch. Supplied with complete electrical system, refrigeration and condenser fan outputs are incorporated.