



INDUSTRIAL DIRECT DRIVEN PISTON COMPRESSORS CL - CH - CK



TECHNOLOGY YOU CAN TRUST

CL - CH - CK

Direct driven solution for industry

Proven technology, solid construction

The CL - CH - CK units are directly driven air-cooled, single or two-stage compressors. In terms of quality, operational safety, service life and operating comfort they provide the standard of the industry.

Versatility

A wide range of products and performance ensure economic solutions for nearly all compressed air needs in the industry. The CL - CH - CK industrial compressors do not only serve as reliable suppliers of compressed air for petrol stations, workshops and factories, but also as individual energy sources for different machines and plants needing compressed air.

- For extreme operating conditions, in professional and industrial applications.
- For sensitive applications in medical and food technology, drinking water supply, etc.
- For extreme operating conditions, proven a thousand times, even at extremely low temperatures.

Design features

PRESSURE LINE

Special finned tubes for optimal heat dissipation.
Higher performance.
Cooler compressed air.
Low wear.

COOLING

Optimum cooling through generously dimensioned, high efficiency and heavy cast iron fan, resulting in low vibration and longer bearing lifetime. The special designed cooling fins on cylinders and pipes ensure low temperatures.

CYLINDERS

Cylinders made of high-quality castings.
Honed in two steps. Extremely long service life.

LOW SPEED

High quality electric motors.
Designed for industrial continuous operation (approx. 1400 rpm).
Overdimensioned.
Trouble-free operation.



VALVE PLATE

Valves made of high-quality steel. High efficiency.
Minimum flow losses. Especially long service life through reduced stroke.

PRESSURE REGULATION

Fully equipped. Pressure switches, high quality (filter) pressure regulators, safety valve, motor protection, CECCATO quick coupling, unloaded start.

PRESSURE RANGE

All pressures up to 15 bar are covered, for different requirements.

SPARE PARTS

Spare parts supply guaranteed. We guarantee delivery of all spare parts for any compressor for a minimum of 10 years after production stop.

POWERPACKS

Powerpack configurations: compressor with motor

- Direct driven: compact greater efficiency, no belt maintenance or losses, perfect alignment.
- Oil lubricated and oil free models.
- Single stage and two-stage configurations.
- Proven industrial design.
- Powerpack available on compressor block. Powerpack with electric motors.
- Complete unit on air receiver.

TECHNICAL DATA

Type	Pressure bar(g) psi(g)	Free Air Delivery l/min m ³ /h	HP	kW	Supply	cylinders	stages	rpm	Noise level dB(A) standard silenced	L (mm)	W (mm)	H (mm)	Kg
Single stage - 10 bar units													
CL 20-10	10 145	185 11,1	2	1,5	M	1	1	1400	76 65	505	270	385	29
CL 20-10	10 145	185 11,1	2	1,5	T	1	1	1400	76 65	505	270	385	29
CL 30-10	10 145	302 18,1	3	2,2	M	2	1	1400	77 66	570	440	340	47
CL 30-10	10 145	302 18,1	3	2,2	T	2	1	1400	77 66	570	440	340	47
CL 40-10	10 145	410 24,6	4	3	T	2	1	1400	77 67	570	440	340	50
Two-stage - 10 bar units													
CH 20-10	10 145	210 12,6	2	1,5	T	2	2	1400	74 61	580	425	340	45
CH 40-10	10 145	446 26,8	4	3	T	2	2	1400	79 67	600	500	435	69
CH 55-10	10 145	600 36,0	5,5	4	T	2	2	1400	79 68	620	500	440	73
Two-stage - 15 bar units													
CH 20-15	15 218	196 11,8	2	1,5	T	2	2	1400	74 61	580	425	340	45
CH 40-15	15 218	389 23,3	4	3	T	2	2	1400	79 67	600	500	435	69
CH 55-15	15 218	510 30,6	5,5	4	T	2	2	1400	79 67	700	520	440	78
Two-stage - Oil free units													
CK 15-7	7 102	144 8,6	1,5	1,1	T	1	1	1400	75 62	505	270	385	28
CK 20-10	10 145	205 12,3	2	1,5	T	2	2	1400	74 61	580	425	340	45
CK 40-10	10 145	441 26,5	4	3	T	2	2	1400	79 67	600	500	435	68
CK 55-10	10 145	568 34,1	5,5	4	T	2	2	1400	79 67	700	520	440	77

M = 230/1/50, T = 400/3/50. Effective output measured as per ISO 1217 at 8bar(g) for 10 bar units, 12 bar(g) for 15 bar units. Subject to change without notice.

CL – CH – CK industrial compressors are robust, economical and designed for long lifetime. CH and CK two-stage compressors have interstage cooling to ensure higher efficiency and lower operating temperatures.



Single stage blocks:

- Oil lubricated: CL
- Oil free: CK 15

Two-stage blocks:

- Oil lubricated: CH
- Oil free: CK (except CK 15)

Range description

Block	pressure	vessel	powerpack	silenced	dryer	Voltage	mobil		
								vertical	
CL/CH/CK	(power hp)	- (bar) / (L)	P	S	T	(V/ph/Hz)	MOBIL		
lub 1 st lub 2 st oil free	power hp	pressure bar	vessel litres	vertical vessel	power pack	with canopy	with dryer	voltage	mobile unit

Base mounted – Horizontal tank mounted units

Compressor unit on base plate

- Used for feeding compressed air tanks in existing stations.
- Complete with a flexible connecting hose, check valve, motor overload protection, rubber pads.
- Options: pressure switch, heavy duty air inlet filter (CH - CK).



Range	Single-stage 10 bar					Two-stage 10 bar			Two-stage 15 bar			Two-stage oil free			
	CL 20		CL 30		CL 40	CH 20	CH 40	CH 55	CH 20	CH 40	CH 55	CK 15	CK 20	CK 40	CK 55
Type	400	230	400	230	400	400	400	400	400	400	400	400	400	400	400
Supply 50Hz	X	X	X		X	X	X	X	X	X	X	X	X	X	X
Availability	X	X	X		X	X	X	X	X	X	X	X	X	X	X

Compressor on horizontal tank

- Easy to install, ready to run, mounted on a horizontal tank.
- Options:
 - Rubber pads.
 - Electronic condensate drain.
 - Heavy duty air inlet filter (CH - CK).
 - Galvanized vessel (standard for CK oil free units).



Range	Single-stage 10 bar					Two-stage 10 bar			Two-stage 15 bar			Two-stage oil free			
	CL 20		CL 30		CL 40	CH 20	CH 40	CH 55	CH 20	CH 40	CH 55	CK 15	CK 20	CK 40	CK 55
Type	400	230	400	230	400	400	400	400	400	400	400	400	400	400	400
Supply 50Hz	X	X	X		X	X						X	X		
50L	X	X	X		X	X			X			X	X		
90L			X		X	X	X	X	X	X		X	X	X	X
270L						X	X		X	X			X	X	X
500L							X	X		X			X	X	X

Duplex compressor units on horizontal tank

- Space-saving and in case of fluctuating air requirement.
- Possibility to cover basic load by one compressor, the second one delivering peak demands.
- Options:
 - Rubber pads.
 - Electronic condensate drain.
 - Galvanized vessel (standard for CK oil free units).



Range	Single-stage 10 bar					Two-stage 10 bar			Two-stage 15 bar			Two-stage oil free			
	CL 20		CL 30		CL 40	CH 20	CH 40	CH 55	CH 20	CH 40	CH 55	CK 15	CK 20	CK 40	CK 55
Type	400	230	400	230	400	400	400	400	400	400	400	400	400	400	400
Supply 50Hz	X	X	X		X	X	X	X	X	X		X	X	X	
300L						X	X		X	X			X	X	
500L							X	X		X			X	X	X

Silenced units

Compressor unit on base plate, with silencing hood

- Same as unit on base plate, but delivered with a silencing hood if a quiet compressor is required.
- Delivered with a flexible connecting hose, check valve, motor overload, rubber pads.
- Options: pressure switch, heavy duty air inlet filter (CH - CK).



Range	Single-stage 10 bar				Two-stage 10 bar			Two-stage 15 bar			Two-stage oil free				
	CL 20		CL 30		CL 40	CH 20	CH 40	CH 55	CH 20	CH 40	CH 55	CK 15	CK 20	CK 40	CK 55
Type	400	230	400	230	400	400	400	400	400	400	400	400	400	400	400
Supply 50Hz	X	X	X		X	X	X	X	X	X	X	X	X	X	X
Availability	X	X	X		X	X	X	X	X	X	X	X	X	X	X

Compressor unit on horizontal tank, with silencing hood

- Identical to unit on tank, but delivered with a silencing hood.
- Options:
 - Vibration dampers.
 - Electronic condensate drain.
 - Heavy duty air inlet filter (CH - CK).
 - Galvanized vessel (standard for CK oil free units).



Range	Single-stage 10 bar				Two-stage 10 bar			Two-stage 15 bar			Two-stage oil free				
	CL 20		CL 30		CL 40	CH 20	CH 40	CH 55	CH 20	CH 40	CH 55	CK 15	CK 20	CK 40	CK 55
Type	400	230	400	230	400	400	400	400	400	400	400	400	400	400	400
Supply 50Hz	X	X										X			
50L	X	X										X			
90L	X	X	X		X	X						X	X		
270L			X		X	X	X	X	X	X		X	X	X	X
500L							X	X		X	X			X	X

Duplex compressor units on horizontal tank, with silencing hood

- Identical to model with 2 compressors a horizontal tank, but delivered with a silencing hood.
- Options:
 - Vibration dampers.
 - Electronic condensate drain.
 - Galvanized vessel (standard for CK oil free units).



Range	Single-stage 10 bar				Two-stage 10 bar			Two-stage 15 bar			Two-stage oil free				
	CL 20		CL 30		CL 40	CH 20	CH 40	CH 55	CH 20	CH 40	CH 55	CK 15	CK 20	CK 40	CK 55
Type	400	230	400	230	400	400	400	400	400	400	400	400	400	400	400
Supply 50Hz	X	X	X		X	X	X	X	X	X		X	X	X	
300L	X	X	X		X	X	X	X	X	X		X	X	X	
500L							X	X		X	X			X	X

Vertical tank mounted - Units with dryer

Compressor unit on vertical tank

- Easy to install, ready to run.
- Space saving solution a vertical 270 litre tank.
- Options:
 - Rubber pads.
 - Electronic condensate drain.
 - Galvanized vessel (standard for CK oil free units).



Range	Single-stage 10 bar				Two-stage 10 bar			Two-stage 15 bar			Two-stage oil free				
Type	CL 20		CL 30		CL 40	CH 20	CH 40	CH 55	CH 20	CH 40	CH 55	CK 15	CK 20	CK 40	CK 55
Supply 50Hz	400	230	400	230	400	400	400	400	400	400	400	400	400	400	400
270L			X		X	X	X	X	X	X	X		X	X	X

Compressor unit on vertical tank, with refrigerant air dryer

- Identical unit on vertical tank, equipped with a refrigerant air dryer.
- Space saving vertical 270 litre tank.
- Delivers dry, condensate-free compressed air.
- All in one unit, fully connected.
- Options:
 - Rubber pads.
 - Electronic condensate drain.
 - Galvanized vessel (standard for CK oil free units).



Range	Single-stage 10 bar				Two-stage 10 bar			Two-stage 15 bar			Two-stage oil free				
Type	CL 20		CL 30		CL 40	CH 20	CH 40	CH 55	CH 20	CH 40	CH 55	CK 15	CK 20	CK 40	CK 55
Supply 50Hz	400	230	400	230	400	400	400	400	400	400	400	400	400	400	400
270L			X		X	X	X	X	X	X	X		X	X	X

Compressor unit on horizontal tank, with silencing hood and air dryer

- Unit with horizontal tanks canopy and refrigerant dryer.
- Options:
 - Vibration dampers.
 - Electronic condensate drain.
 - Heavy duty air inlet filter (CH - CK).
 - Galvanized vessel (standard for CK oil free units).



Range	Single-stage 10 bar				Two-stage 10 bar			Two-stage 15 bar			Two-stage oil free				
Type	CL 20		CL 30		CL 40	CH 20	CH 40	CH 55	CH 20	CH 40	CH 55	CK 15	CK 20	CK 40	CK 55
Supply 50Hz	400	230	400	230	400	400	400	400	400	400	400	400	400	400	400
270L							X	X		X	X			X	X



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