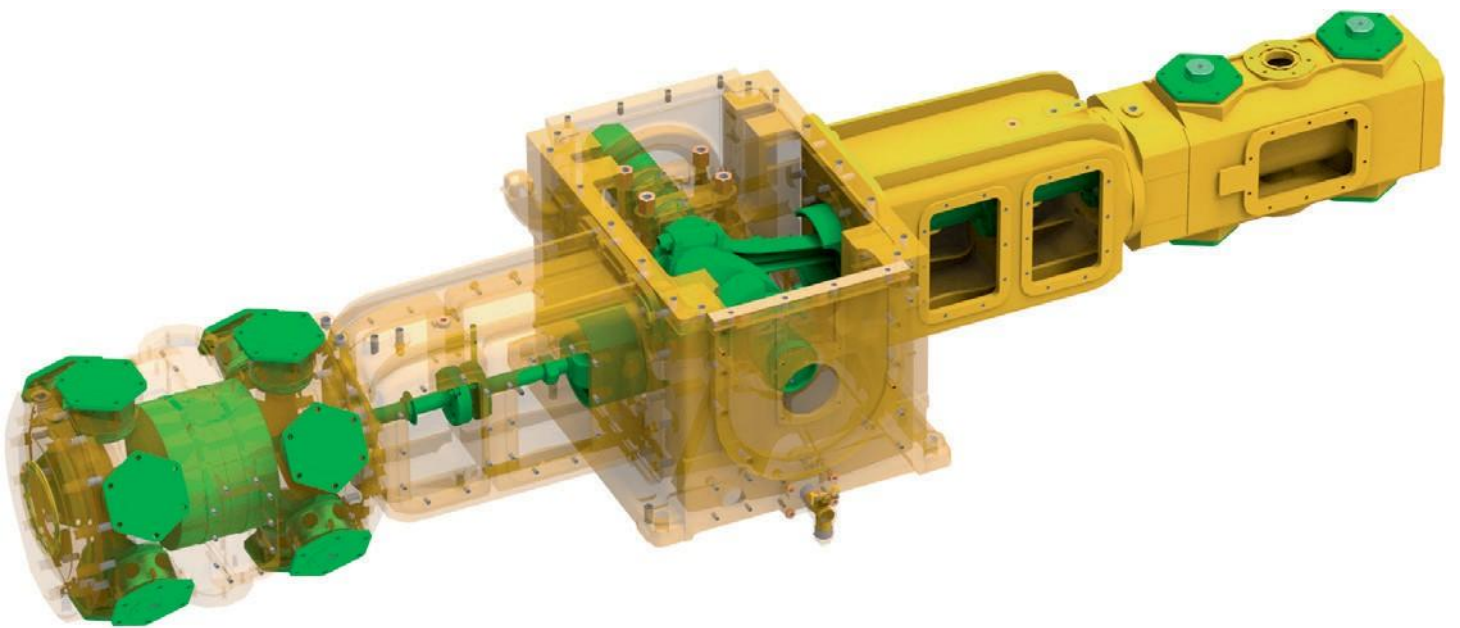




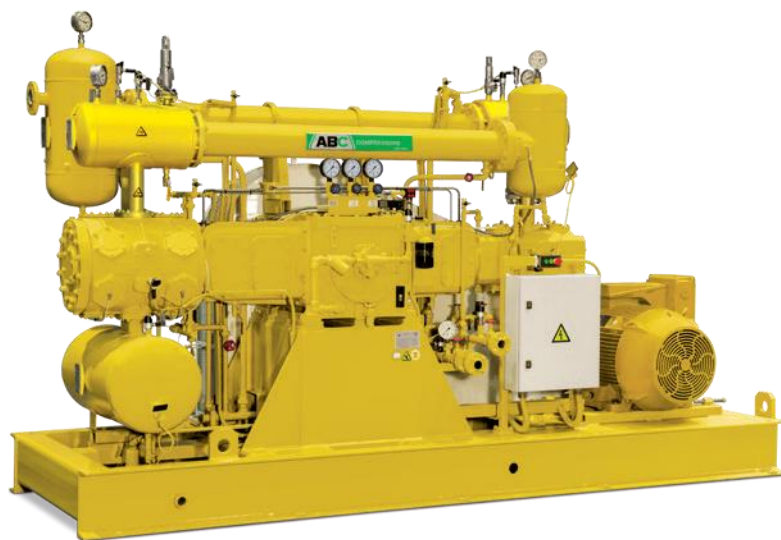
RELIABLE BEYOND LIMITS

UNITED COMPRESSOR INDUSTRIES
94 NEW DLF INDUSTRIAL AREA FARIDABAD HARYANA-121003



UCI IN CO₂ INDUSTRY

Since the early 90's, UCI manufactures a wide range of CO₂ compressors: from the CO₂ recovery for breweries, to a variety of applications for gas producers. In close cooperation with engineering companies, ABC compressors are customized according to the project requirements, delivering complete units: compressor and electric cabinet on skid or bare compressors to be packaged by the engineering company responsible for the turn-key system.



▲ eCOO 1300

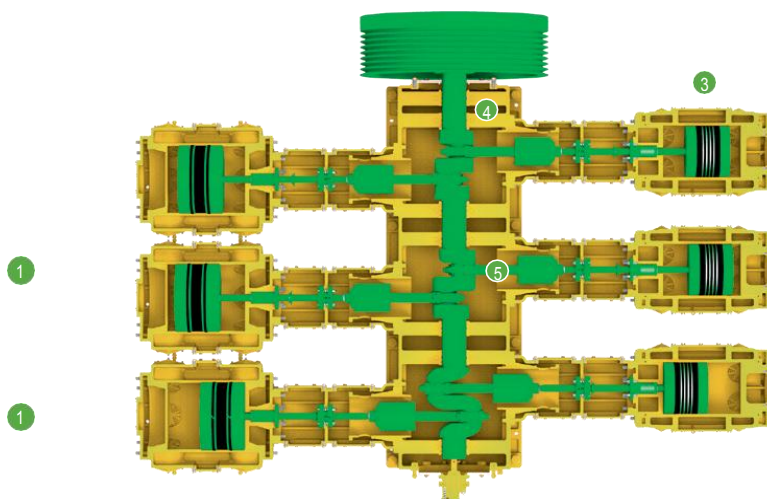
EFFICIENT DESIGN

- Cylinders are horizontally opposed, with crankpins displaced by 180°, cancelling out the inertia loads.
- Virtually without vibrations.
- Longer life of mechanical parts as they do not transmit excessive force or produce fatigue on structural parts of the compressor, 20 years machine lifetime.
- No anti-vibration pads or special foundations are required, + 2kg/cm².
- Excellent adaptation to frequency converter up to 55%.
- Double acting.
- Refrigeration / Inter and final coolers.

MODULAR DESIGN

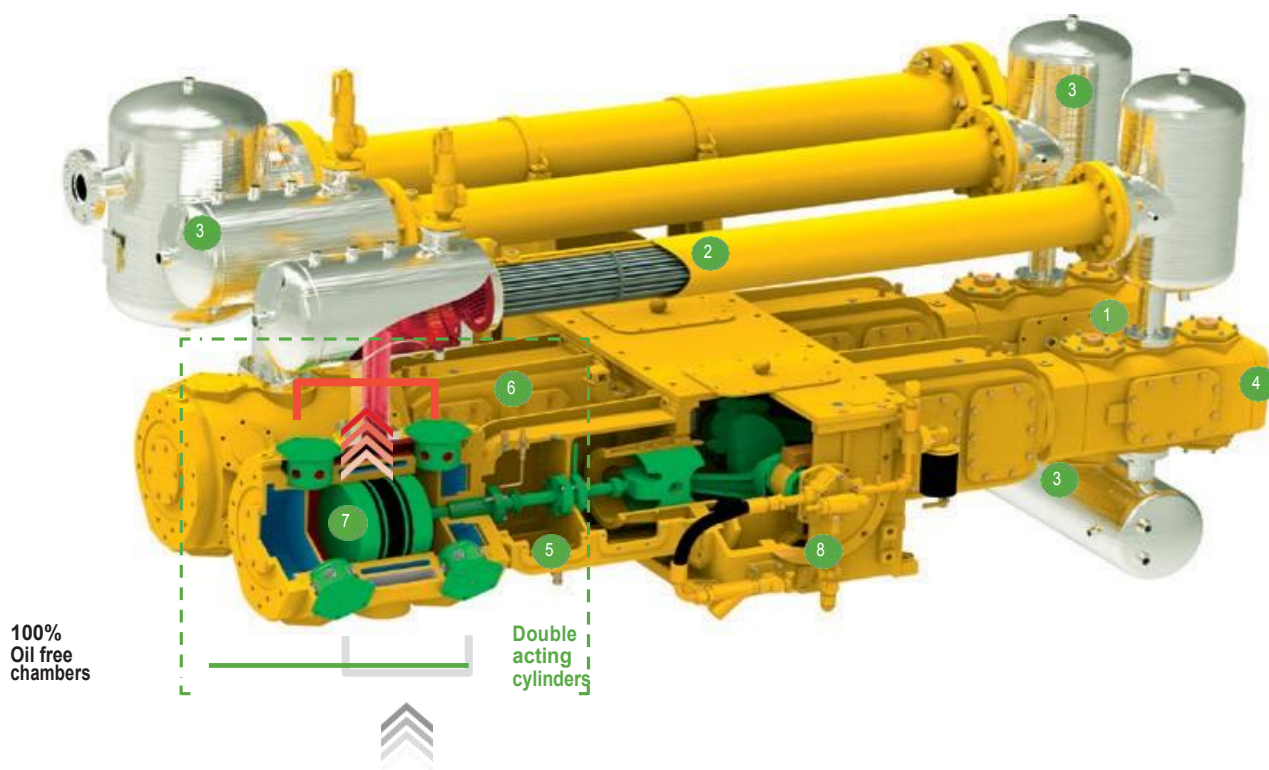
100% INTERCHANGEABLE PARTS

UCI CO₂ compressors are designed using interchangeable cylinders. Thanks to that, UCI compressors share the same spare parts, allowing a cost effective and easy maintenance.



- 1 1st stage of compression
- 2 2nd stage of compression
- 3 Double acting cylinders
- 4 Double friction-bearing support
- 5 Large oil receiver

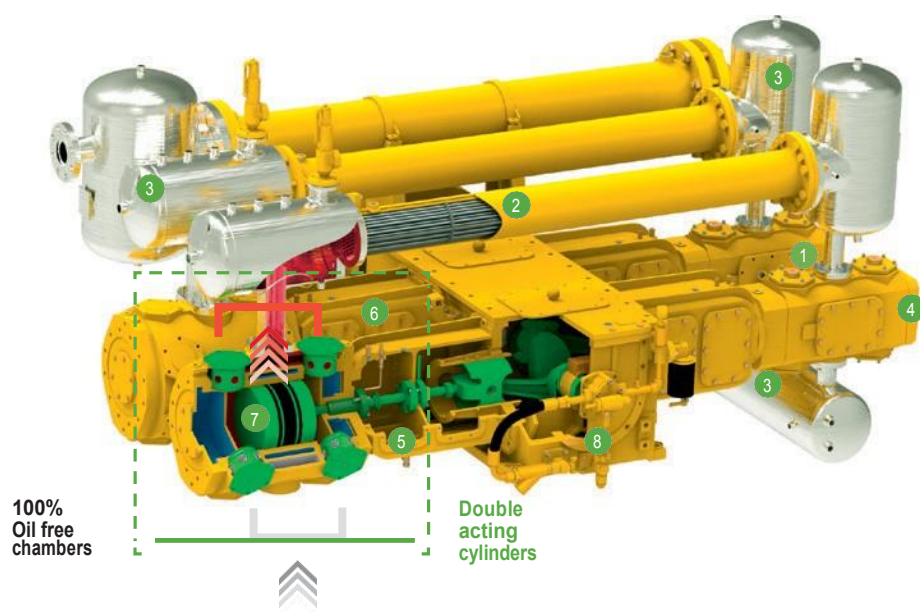
HIGH PERFORMANCE BOXER



OIL FREE AND CORROSION PROOF

UCI compressors are totally oil free thanks to long blocks between casing and cylinders: cylinder side chamber is large enough to avoid the piston rod part in contact with the mechanical elements could get in contact with the packing. An oilthrower at the rod avoids the oil to advance along the piston rod.

CO₂ range is prepared to compress saturated gas. The gas circuit, condensates separators and heat exchangers are instainless steel, avoiding corrosions and providing longer life to parts.



- 1 Stainless steel valves
- 2 Inter and after coolers: stainless steel bundles, dilatible, demountable
- 3 Stainless steel separators, dampeners as option
- 4 Cylinders with thermostatic valves
- 5 B-type distance piece assuring completely OIL FREE compression
- 6 CO₂ venting for packings and distance blocks
- 7 Aluminium pistons
- 8 Shaft driven oil pump

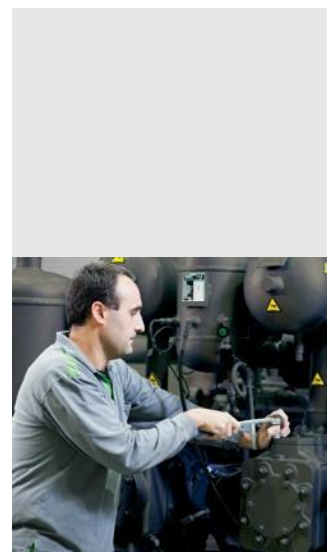
20 BAR CO₂ RANGE

MODEL	FLOW	MOTOR		CYLINDERS	STAGES	FRAME	FOOTPRINT
		kg/h	kW				
e ^{COO} 170	170	19	25	220/120	2	V-type	1,09x2,17
e ^{COO} 200	200	22	30	220/120	2	V-type	1,09x2,17
e ^{COO} 300	300	37	50	220x2/120x2	2	V-type	1,09x2,17
e ^{COO} 400	400	45	60	220x2/120x2	2	V-type	1,09x2,17
e ^{COO} 500	500	45	60	245x2/170/120	3	V-type	1,09x2,17
e ^{COO} 600	600	55	75	245x2/170/120	3	V-type	1,09x2,17
e ^{COO} 900	900	75	100	320/160	2	Boxer	1,35x3,90
e ^{COO} 1000	1.000	90	125	320/160	2	Boxer	1,35x3,90
e ^{COO} 1300	1.300	110	150	320/160	2	Boxer	1,35x3,90
e ^{COO} 1600	1.600	132	180	320x2/160x2	2	Boxer	1,90x3,94
e ^{COO} 2000	2.000	160	220	320x2/160x2	2	Boxer	1,90x3,94
e ^{COO} 2400	2.400	200	270	320x2/160x2	2	Boxer	1,90x3,94
e ^{COO} 2600	2.600	250	340	320x2/160x2	2	Boxer	1,90x3,94
e ^{COO} 3000	3.000	250	340	320x3/160x3	2	Boxer	2,28x4,50
e ^{COO} 3400	3.400	280	380	320x3/160x3	2	Boxer	2,28x4,50
e ^{COO} 3800	3.800	315	425	320x3/160x3	2	Boxer	2,28x4,50
e ^{COO} 4000	4.000	355	480	320x3/160x3	2	Boxer	2,28x4,50

Catalogue data: 400V/50Hz, saturated CO₂, for inlet 1,013 bara, outlet 20 bara. Max. standard suction pressure 1,3 bara.



e^{COO} 4000



TAYLOR MADE SOLUTIONS

CONFIGURATION

Piston compressors with up to 3 pairs of double-acting cylinders, with or without lubrication. Up to 6 stages of compression, mounted on a structural steel skid.

GASES

Air, Hydrogen, Nitrogen, Methane, Carbon dioxide, Freon, Natural Gas, Vinyl chloride, Methyl chloride, Ethylene, Propylene, Sulphur dioxide, Butadiene, Isobutene, Isobutane, Butane, Propane, Carbon monoxide, Synthesis gas, Biogas and Syngas... except for Oxygen and Acetylene.

POWER

Up to 1.200 kW

PRESSURE

Up to 150 bar

