

C6

Frascold open type reciprocating compressors

for refrigeration, air conditioning, cooling process and marine applications





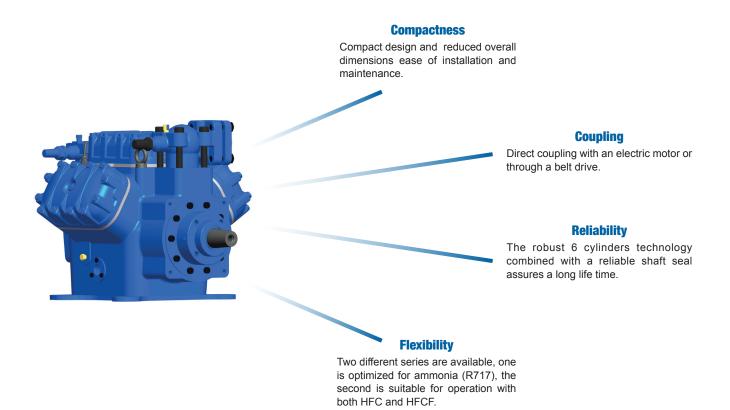
C6 SERIES

The new generation of Frascold C6 open drive reciprocating compressors has been designed with the utmost attention to compactness, reliability and flexibility. Two different series are offered: one is specifically designed for ammonia (R717), the second is suitable for operation with HFC and HCFC. At the moment the range consists of 6 models, all of them realised on a six cylinder frame.

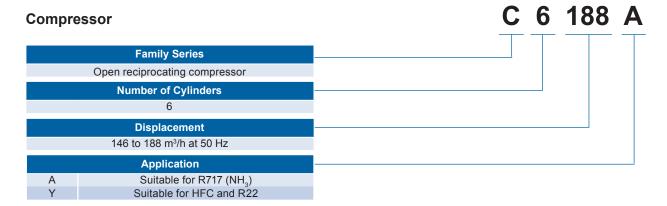
C6 compressor series is suitable for several applications: refrigeration, air conditioning, cooling process, marine and ATEX zone.

Main features

The new C6 compressors series is characterised by the following main features:



Model designation





Standard extent of delivery

The C6 series of compressors is supplied with suction and discharge valves, two oil level sight glasses, lubricant charge (POE 68 oil for HFC and HCFC; naphthenic mineral oil for R717), holding charge (nitrogen).

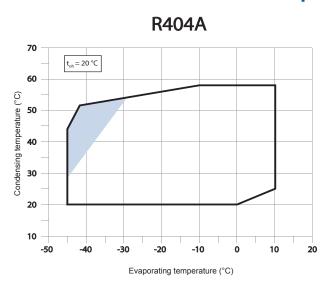
Optional accessories for HFC & HCFC

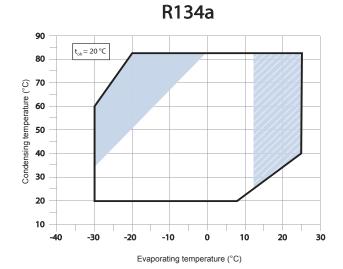
- · Discharge temperature sensor
- Oil pressure switch
- Head fan motor
- Crankcase heater
- · Capacity control head
- Unloaded start
- · Water cooled head
- · Coupling joint / pulley
- Oil level switch
- Oil level regulator
- · FLI liquid injection device
- Elevated base plate

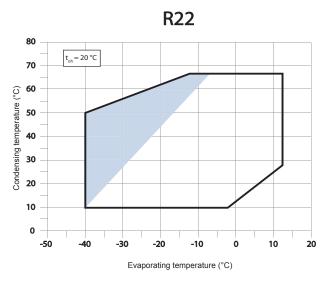
Optional accessories for ammonia (R717)

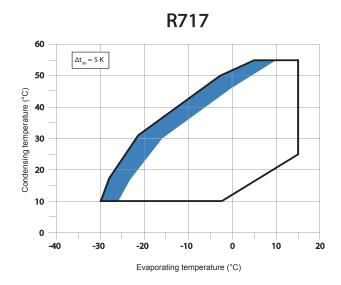
- Discharge temperature sensor
- Head fan motor
- · Crankcase heater
- · Water cooled head
- · Coupling joint / pulley
- · Elevated base plate

Operating limits









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Additional cooling

Suction gas superheat > 10K Water cooled head mandatory

 ${f t}_{
m oh}$ Suction gas temperature (°C) $\Delta {f t}_{
m oh}$ Suction superheating (K)

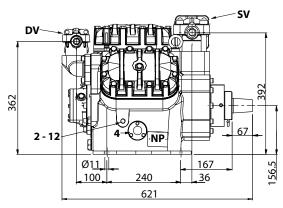


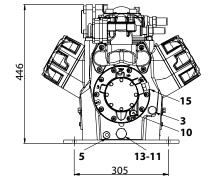
Technical data

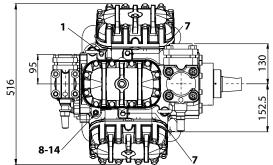
	Displacement (m³/h)		Weight	Connections				Connect
Compressor				Suction		Discharge		Speed
	1450 rpm	1750 rpm	kg	ø mm	inches	ø mm	inches	rpm
C6-146Y	146	175	190	67	2"5/8	42	1"5⁄8	
C6-162Y	162	194	190	67	2"5/8	42	1"5⁄8	1800
C6-188Y	188	226	190	67	2"5/8	42	1"5⁄8	
C6-146A	146	175	190	67	2"5/8	42	1"5⁄8	^
C6-162A	162	194	190	67	2"5/8	42	1"5⁄8	700
C6-188A	188	226	190	67	2"5/8	42	1"5⁄8	

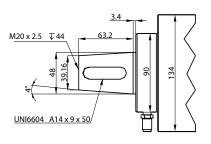
All models available starting from Q1 2015.

Dimensional drawings









DRAWING NOTES						
1	High pressure plug	1/8" NPT				
2	Low pressure plug	1/4" NPT				
3	Oil charge plug	3/8" GAS				
4	Oil level sight glass	-				
5	Crankcase heater seat	-				
6	Oil drain plug	1/4" GAS				
7	Liquid injection valve plug	1/8" NPT				
8	Liquid injection sensor plug	-				
9	Oil pressure switch connection (LP)	1/4" SAE				

DRAWING NOTES					
10	Oil pressure switch connection (HP)	1/4" SAE			
11	Oil filter	3/8" GAS			
12	Oil return plug	1/4" NPT			
13	Magnetic plug	3/8" GAS			
14	Max discharge temperature sensor	-			
15	Electronic oil pressure switch connection	-			
DV	Discharge valve	-			
NP	Name plate	-			
SV	Suction valve	-			

FRASCOLD SpA