

# Copeland scroll compressors

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# 1 Introduction

The Pressure Equipment Directive (PED) 2014/68/EU applies to the design, manufacture and conformity assessment of stationary pressure equipment for the refrigeration, air conditioning or heat pump industry that is produced in or imported into the European Community.

This document refers to Copeland scroll compressors.

The PED differentiates between categories of pressure equipment. Four categories are defined in the PED directive, differentiated by ranges of Pressure x Volume. These ranges are defined separately for each fluid group:

- Fluid group 1 is for dangerous fluids (toxic, flammable, explosive)
- Fluid group 2 is for all other fluids

PED categories are used to establish if equipment is subjected to the scope of the PED or not, and in what compliance with the PED must be demonstrated.

All equipment and compressors classified no higher than category 1 are excluded from the scope of the PED and are covered by the Low Voltage Directive 2014/35/EU.

Compressors with PED category 2 and 3 will demonstrate the compliance with the directive and a successful audit. Copeland publishes corresponding Declarations of Conformity.

Compressor models with smaller displacements up to 21,4 m<sup>3</sup>/h in operation with A1 refrigerants (fluid group 2), usually fall into category 1 and are thus excluded from the PED.

The tables on the next pages show the lists of hermetic scroll compressors and their PED categories, fluid groups, internal free volumes, maximum allowable pressures and temperatures.

## 2 ZR\* compressors

Compressor	PS (bar)		TS LP side (°C)	Internal free volume (L)		Fluid group	PED category
	LP side	HP side		LP side	HP side		
ZR18K5E	21.0	29.0	50.0	N/A	N/A	2	1
ZR22K3E	21.0	29.0	50.0	N/A	N/A	2	1
ZR24KRE	21.0	29.0	50.0	N/A	N/A	2	1
ZR28K3E	21.0	29.0	50.0	N/A	N/A	2	1
ZR28KRE	21.0	29.0	50.0	N/A	N/A	2	1
ZR34K3E	21.0	29.0	50.0	N/A	N/A	2	1
ZR36KRE	21.0	29.0	50.0	N/A	N/A	2	1
ZR40K3E	21.0	29.0	50.0	N/A	N/A	2	1
ZR42KRE	21.0	29.0	50.0	N/A	N/A	2	1
ZR48K3E	21.0	29.0	50.0	N/A	N/A	2	1
ZR48KRE	21.0	29.0	50.0	N/A	N/A	2	1
ZR61KCE	21.0	29.0	50.0	N/A	N/A	2	1
ZR61KRE	21.0	29.0	50.0	N/A	N/A	2	1
ZR61KSE	21.0	29.0	50.0	N/A	N/A	2	1
ZR69KRE	21.0	29.0	50.0	N/A	N/A	2	1
ZR72KCE	21.0	29.0	50.0	N/A	N/A	2	1
ZR72KRE	21.0	29.0	50.0	N/A	N/A	2	1
ZR81KCE	21.0	29.0	50.0	N/A	N/A	2	1
ZR81KRE	21.0	29.0	50.0	N/A	N/A	2	1
ZR90K3E	20.0	32.0	52.0	15.5	2.1	2	2
ZR92KRE	21.0	29.0	50.0	N/A	N/A	2	1
ZR94KCE	20.0	32.0	52.0	12.6	1.5	2	2
ZR108KCE	20.0	32.0	52.0	12.6	1.5	2	2
ZR108KRE	20.5	32.0	53.0	12.6	1.5	2	2
ZR11M3E	20.0	32.0	52.0	15.5	2.1	2	2
ZR125KCE	20.0	32.0	52.0	12.6	1.5	2	2
ZR125KRE	20.5	32.0	53.0	12.6	1.5	2	2
ZR12M3E	20.0	32.0	52.0	15.5	2.1	2	2
ZR144KCE	20.0	32.0	52.0	12.6	1.5	2	2
ZR144KRE	20.5	32.0	53.0	12.6	1.5	2	2
ZR160KCE	20.0	32.0	52.0	12.9	1.5	2	2
ZR160KRE	20.5	32.0	53.0	12.9	1.5	2	2
ZR16M3E	20.0	32.0	52.0	15.2	2.1	2	2
ZR190KCE	20.0	32.0	52.0	12.9	1.5	2	2
ZR190KRE	20.5	32.0	53.0	12.9	1.5	2	2
ZR19M3E	20.0	32.0	52.0	15.5	3.1	2	2
ZR250KCE	20.0	32.0	52.0	21.1	4.1	2	2
ZR300KCE	20.0	32.0	52.0	32.1	4.4	2	2
ZR310KCE	20.0	32.0	52.0	32.1	4.4	2	2
ZR380KCE	20.0	32.0	52.0	28.7	4.4	2	2

N/A = Not Available

### 3 ZRD\* compressors

Compressor	PS (bar)		TS LP side (°C)	Internal free volume (L)		Fluid group	PED category
	LP side	HP side		LP side	HP side		
ZRD36KRE	21.0	29.0	50.0	N/A	N/A	2	1
ZRD42KCE	20.0	29.5	50.0	N/A	N/A	2	1
ZRD48KCE	20.0	29.5	50.0	N/A	N/A	2	1
ZRD48KRE	21.0	29.0	50.0	N/A	N/A	2	1
ZRD61KCE	20.0	29.5	50.0	N/A	N/A	2	1
ZRD61KRE	21.0	29.0	50.0	N/A	N/A	2	1
ZRD72KCE	20.0	29.5	50.0	N/A	N/A	2	1
ZRD72KRE	21.0	29.0	50.0	N/A	N/A	2	1
ZRD81KCE	20.0	29.5	50.0	N/A	N/A	2	1
ZRD94KCE	22.6	32.0	52.0	N/A	N/A	2	1
ZRD125KCE	20.0	32.0	52.0	12.6	1.5	2	2
ZRD94KQE	20.0	32.0	52.0	12.6	1.5	2	2

N/A = Not Available

### 4 ZP\* compressors

Compressor	PS (bar)		TS LP side (°C)	Internal free volume (L)		Fluid group	PED category
	LP side	HP side		LP side	HP side		
ZP24K5E	29.5	45.0	50.0	N/A	N/A	2	1
ZP29K5E	29.5	45.0	50.0	N/A	N/A	2	1
ZP31K5E	29.5	45.0	50.0	N/A	N/A	2	1
ZP36K5E	29.5	45.0	50.0	N/A	N/A	2	1
ZP42K5E	29.5	45.0	50.0	N/A	N/A	2	1
ZP54K5E	29.5	45.0	50.0	N/A	N/A	2	1
ZP72KCE	29.5	45.0	50.0	N/A	N/A	2	1
ZP83KCE	29.5	45.0	50.0	N/A	N/A	2	1
ZP90KCE, ZP90KQE	29.5	45.0	50.0	12.6	1.5	2	2
ZP91KCE	29.5	45.0	50.0	N/A	N/A	2	1
ZP103KCE, ZP103KQE	29.5	45.0	50.0	12.6	1.5	2	2
ZP104KCE	29.5	45.0	50.0	N/A	N/A	2	2
ZP120KCE, ZP120KQE	29.5	45.0	50.0	12.6	1.5	2	2
ZP122KCE	29.5	45.0	50.0	N/A	N/A	2	2
ZP137KCE, ZP137KQE	29.5	45.0	50.0	12.6	1.5	2	2
ZP137KPE	29.5	45.0	50.0	12.6	1.5	2	2
ZP143KCE	29.5	45.0	50.0	N/A	N/A	2	2
ZP154KCE, ZP154KQE	29.5	45.0	50.0	12.9	1.5	2	2
ZP154KPE	29.5	45.0	50.0	12.9	1.5	2	2
ZP180KCE	29.5	45.0	50.0	15.5	3.1	2	2
ZP182KCE, ZP182KQE	29.5	45.0	50.0	12.9	1.5	2	2
ZP182KPE	29.5	45.0	50.0	12.9	1.5	2	2
ZP232KZE	30.4	50.0	50.0	12.8	2.5	2	2
ZP233KZE	30.4	50.0	50.0	12.8	2.5	2	2
ZP235KCE	29.5	45.0	50.0	21.1	4.1	2	2
ZP285KCE	29.5	45.0	50.0	29.1	4.4	2	2
ZP292KZE	30.4	50.0	50.0	12.8	2.5	2	2
ZP293KZE	30.4	50.0	50.0	12.8	2.5	2	2
ZP295KCE	29.5	45.0	50.0	29.1	4.4	2	2
ZP385KCE, ZP385KPE	29.5	45.0	50.0	28.7	4.4	2	2
ZP485KCE, ZP485KPE	29.5	45.0	50.0	29.5	4.3	2	2
ZP485KWE	29.5	45.0	50.0	29.5	4.3	2	2
ZP725KCE	29.5	45.0	50.0	31.3	4.3	2	3

N/A = Not Available

## 5 ZPD\* compressors

Compressor	PS (bar)		TS LP side (°C)	Internal free volume (L)		Fluid group	PED category
	LP side	HP side		LP side	HP side		
ZPD34KSE	28.0	43.0	50.0	N/A	N/A	2	1
ZPD42KSE	28.0	43.0	50.0	N/A	N/A	2	1
ZPD54KSE	28.0	43.0	50.0	N/A	N/A	2	1
ZPD61KCE	28.0	43.0	50.0	N/A	N/A	2	1
ZPD72KCE	28.0	43.0	50.0	N/A	N/A	2	1
ZPD83KCE	28.0	43.0	50.0	N/A	N/A	2	1
ZPD91KCE	28.0	43.0	50.0	N/A	N/A	2	1
ZPD103KCE	29.5	45.0	50.0	12.6	1.5	2	2
ZPD120KCE	29.5	45.0	50.0	12.6	1.5	2	2
ZPD137KCE	29.5	45.0	50.0	12.6	1.5	2	2
ZPD154KCE	29.5	45.0	50.0	12.9	1.5	2	2
ZPD182KCE	29.5	45.0	50.0	12.9	1.5	2	2

N/A = Not Available

## 6 ZB\*K\*E/ZBD\*K\*E compressors

Compressor	PS (bar)		TS LP side (°C)	Internal free volume (L)		Fluid group	PED category
	LP side	HP side		LP side	HP side		
ZB15KCE	21.0	32.0	50.0	N/A	N/A	2	1
ZB19KCE	21.0	32.0	50.0	N/A	N/A	2	1
ZB21KCE	21.0	32.0	50.0	N/A	N/A	2	1
ZB26KCE	21.0	32.0	50.0	N/A	N/A	2	1
ZB30KCE	21.0	32.0	50.0	N/A	N/A	2	1
ZB38KCE	21.0	32.0	50.0	N/A	N/A	2	1
ZB45KCE	21.0	32.0	50.0	N/A	N/A	2	1
ZB48KCE	20.0	32.0	50.0	N/A	N/A	2	1
ZB50KCE	22.6	32.0	50.0	12.6	1.5	2	2
ZB56KCE	22.6	32.0	50.0	15.5	2.1	2	2
ZB57KCE	20.0	32.0	50.0	N/A	N/A	2	1
ZB58KCE	22.6	32.0	50.0	12.6	1.5	2	2
ZB66K5E, ZB66KCE	22.6	32.0	50.0	12.6	1.5	2	2
ZB75KCE	22.6	32.0	50.0	15.5	2.1	2	2
ZB76K5E, ZB76KCE	22.6	32.0	50.0	12.6	1.5	2	2
ZB92KCE	22.6	32.0	50.0	15.2	2.1	2	2
ZB95K5E, ZB95KCE	22.6	32.0	50.0	12.9	1.5	2	2
ZB114K5E, ZB114KCE	22.6	32.0	50.0	12.9	1.5	2	2
ZB11MCE	22.6	32.0	50.0	15.5	3.1	2	2
ZB220KCE	22.6	32.0	50.0	32.1	4.4	2	2
ZBD21KCE	21.0	32.0	50.0	4.1	0.5	2	1
ZBD29KCE	21.0	32.0	50.0	4.6	0.5	2	1
ZBD30KCE	21.0	32.0	50.0	6.3	0.5	2	1
ZBD38KCE	21.0	32.0	50.0	6.3	0.5	2	1
ZBD45KCE	21.0	32.0	50.0	6.3	0.5	2	1
ZBD57KCE	20.0	32.0	50.0	6.3	0.5	2	1
ZBD58KCE	22.6	32.0	50.0	12.6	1.5	2	2
ZBD76KCE	22.6	32.0	50.0	12.6	1.5	2	2
ZBD76K5E	22.6	32.0	50.0	12.6	1.5	2	2
ZBD114K5E	22.6	32.0	50.0	12.9	1.5	2	2

N/A = Not Available

## 7 ZB\*K\*U compressors

Compressor	PS (bar)		TS LP side (°C)	Internal free volume (L)		Fluid group	PED category
	LP side	HP side		LP side	HP side		
ZB07KAU	17.0	28.0	50.0	N/A	N/A	1	1
ZB09KAU	17.0	28.0	50.0	N/A	N/A	1	1
ZB10KAU	17.0	28.0	50.0	N/A	N/A	1	1
ZB11KAU	17.0	28.0	50.0	N/A	N/A	1	1
ZB14KAU	17.0	28.0	50.0	N/A	N/A	1	1
ZB12KCU	17.0	28.0	50.0	4.1	0.5	1	2
ZB17KCU	17.0	28.0	50.0	4.2	0.5	1	2
ZB20KCU	17.0	28.0	50.0	4.3	0.5	1	2
ZB25KCU	17.0	28.0	50.0	6.4	0.6	1	2
ZB31KCU	17.0	28.0	50.0	6.4	0.6	1	2
ZB37KCU	17.0	28.0	50.0	6.4	0.6	1	2
ZB49KCU	17.0	28.0	50.0	6.4	0.6	1	2

## 8 ZF\*/ZFD\* compressors

Compressor	PS (bar)		TS LP side (°C)	Internal free volume (L)		Fluid group	PED category
	LP side	HP side		LP side	HP side		
ZF24K4E, ZF24KVE	22.6	32.0	50.0	15.5	2.1	2	2
ZF33K4E, ZF33KVE	22.6	32.0	50.0	15.5	2.1	2	2
ZF34K5E	22.6	32.0	50.0	12.6	1.5	2	2
ZF40K4E, ZF40KVE	22.6	32.0	50.0	15.2	2.1	2	2
ZF41K5E	22.6	32.0	50.0	12.6	1.5	2	2
ZF48K4E, ZF48KVE	22.6	32.0	50.0	15.5	3.1	2	2
ZF49K5E	22.6	32.0	50.0	12.9	1.5	2	2
ZFD41K5E	22.6	32.0	50.0	12.6	1.5	2	2
ZFD54K5E	22.6	32.0	50.0	12.9	1.5	2	2

## 9 ZSVH\* compressors

Compressor	PS (bar)		TS LP side (°C)	Internal free volume (L)		Fluid group	PED category
	LP side	HP side		LP side	HP side		
ZSVH0211E-3X9	21.0	28.8	50.0	2.2	0.4	2	1
ZSVH0291E-3X9	21.0	28.8	50.0	2.2	0.4	2	1
ZSVH0461E-4X9	21.0	28.8	50.0	2.2	0.4	2	1
ZSVH0461E-9X9	21.0	28.8	50.0	2.2	0.4	2	1

N/A = Not Available

## 10 ZH\*/ZHI\* compressors

Compressor	PS (bar)		TS LP side (°C)	Internal free volume (L)		Fluid group	PED category
	LP side	HP side		LP side	HP side		
ZH04KCU	17.0	28.0	50.0	4.1	0.5	1	2
ZH06KCU	17.0	28.0	50.0	4.2	0.5	1	2
ZH08KCU	17.0	28.0	50.0	4.3	0.5	1	2
ZH09KCU	17.0	28.0	50.0	6.4	0.6	1	2
ZH11KCU	17.0	28.0	50.0	6.4	0.6	1	2
ZH13KCU	17.0	28.0	50.0	6.4	0.6	1	2
ZH16KCU	17.0	28.0	50.0	6.4	0.6	1	2
ZH24KVE	22.6	32.0	50.0	15.5	2.1	2	2
ZH33KVE	22.6	32.0	50.0	15.5	2.1	2	2
ZH40KVE	22.6	32.0	50.0	15.2	2.1	2	2
ZH48KVE	22.6	32.0	50.0	15.5	3.1	2	2
ZH40KCE	20.0	32.0	50.0	12.6	1.5	2	2
ZH45KCE	20.0	32.0	50.0	12.6	1.5	2	2
ZH50KCE	20.0	32.0	50.0	12.6	1.5	2	2
ZH56K4E	22.6	32.0	50.0	15.5	2.1	2	2
ZH64KCE	20.0	32.0	50.0	12.9	1.5	2	2
ZH75K4E	22.6	32.0	50.0	15.5	2.1	2	2
ZH75KCE	20.0	32.0	50.0	12.9	1.5	2	2
ZH92K4E	22.6	32.0	50.0	15.2	3.1	2	2
ZH11M4E	22.6	32.0	50.0	15.5	3.1	2	2
ZH100KCE	20.0	32.0	50.0	21.1	4.1	2	2
ZH125KCE	20.0	32.0	50.0	32.1	4.4	2	2
ZH150KCE	20.0	32.0	50.0	32.1	4.4	2	2
ZHI27K1P	29.5	53.0	50.0	12.6	1.5	2	2
ZHI32K1P	29.5	53.0	50.0	12.6	1.5	2	2
ZHI35K1P	29.5	53.0	50.0	12.6	1.5	2	2
ZHI40K1P	29.5	53.0	50.0	12.9	1.5	2	2
ZHI46K1P	29.5	53.0	50.0	12.9	1.5	2	2

## 11 ZO\*/ZL\*/ZT\* compressors

Compressor	PS (bar)		TS LP side (°C)	Internal free volume (L)		Fluid group	PED category
	LP side	HP side		LP side	HP side		
ZO18AG	45.0	60.0	50.0	2.8	0.4	2	1
ZO25AG	45.0	60.0	50.0	2.8	0.4	2	1
ZO38AG	45.0	60.0	50.0	2.8	0.4	2	1
ZO46AG	45.0	60.0	50.0	2.8	0.4	2	1
ZOV18AG	45.0	60.0	50.0	3.3	0.4	2	1
ZOV25AG	45.0	60.0	50.0	3.3	0.4	2	1
ZOV38AG	45.0	60.0	50.0	3.3	0.4	2	1
ZL16AG	110.0	140.0	50.0	4.0	0.8	2	2
ZL21AG	110.0	140.0	50.0	4.0	0.8	2	2
ZL28AG	110.0	140.0	50.0	4.0	0.8	2	2
ZL36AG	110.0	140.0	50.0	4.0	0.8	2	2
ZLV16AG	110.0	140.0	50.0	5.8	0.8	2	2
ZLV21AG	110.0	140.0	50.0	5.8	0.8	2	2
ZLV28AG	110.0	140.0	50.0	5.8	0.8	2	2
ZLV36AG	110.0	140.0	50.0	5.8	0.8	2	2
ZTI16AG	110.0	140.0	50.0	3.8	0.8	2	2
ZTI21AG	110.0	140.0	50.0	3.8	0.8	2	2
ZTI28AG	110.0	140.0	50.0	3.8	0.8	2	2
ZTI36AG	110.0	140.0	50.0	3.8	0.8	2	2
ZTW16AG	110.0	140.0	50.0	5.1	0.8	2	2
ZTW21AG	110.0	140.0	50.0	5.1	0.8	2	2
ZTW28AG	110.0	140.0	50.0	5.1	0.8	2	2
ZTW36AG	110.0	140.0	50.0	5.1	0.8	2	2

## 12 ZRH\*/ZBH\* horizontal scroll compressors

Compressor	PS (bar)		TS LP side (°C)	Internal free volume (L)		Fluid group	PED category
	LP side	HP side		LP side	HP side		
ZBH30KJE	20.0	29.5	50.0	11.4	1.0	2	2
ZBH38KJE	20.0	29.5	50.0	11.4	1.0	2	2
ZBH45KJE	20.0	29.5	50.0	11.4	1.0	2	2
ZRH49KJE	20.0	29.5	50.0	11.4	1.0	2	2
ZRH61KJE	20.0	29.5	50.0	11.4	1.0	2	2
ZRH72KJE	20.0	29.5	50.0	11.4	1.0	2	2
ZRH72KTE	20.0	32.0	50.0	N/A	N/A	2	1
ZRH72KTR	20.0	32.0	50.0	N/A	N/A	2	1
ZRH81KTE	20.0	32.0	50.0	N/A	N/A	2	1
ZRH81KTR	20.0	32.0	50.0	N/A	N/A	2	1
ZRH87KTE	20.0	32.0	50.0	N/A	N/A	2	2
ZRH87KTR	20.0	32.0	50.0	N/A	N/A	2	2
ZRH100KTE	20.0	32.0	50.0	N/A	N/A	2	2
ZRH100KTR	20.0	32.0	50.0	N/A	N/A	2	2
ZRH116KTE	20.0	32.0	50.0	N/A	N/A	2	2
ZRH116KTR	20.0	32.0	50.0	N/A	N/A	2	2
ZBHV45KJE	20.0	29.5	50.0	11.4	1.0	2	2
ZRHV72KJE	20.0	29.5	50.0	11.4	1.0	2	2
ZRHV72KTE	20.0	32.0	50.0	N/A	N/A	2	1
ZRHV72KTR	20.0	32.0	50.0	N/A	N/A	2	1
ZRHV81KTE	20.0	32.0	50.0	N/A	N/A	2	2
ZRHV81KTR	20.0	32.0	50.0	N/A	N/A	2	2
ZRHV94KTE	20.0	32.0	50.0	N/A	N/A	2	2

N/A = Not Available



### 13 YP\*/YPV\* compressors

Compressor	PS (bar)		TS max LP side (°C)	Internal free volume (L)		Fluid group	PED category
	LP side	HP side		LP side	HP side		
YP83K1T	30.4	50.0	50.0	5.0	0.6	1	2
YP91K1T	30.4	50.0	50.0	6.4	0.6	1	2
YP104K1T	30.4	50.0	50.0	6.4	1.0	1	2
YP122K1T	30.4	50.0	50.0	6.4	1.0	1	2
YP137K1T	30.4	49.0	50.0	12.6	1.5	1	3
YP154K1T	30.4	49.0	50.0	12.6	1.5	1	3
YP182K1T	30.4	49.0	50.0	12.6	1.5	1	3
YP195KNT, YP195KPT	29.5	45.0	48.0	12.6	1.4	1	3
YP232K1T	30.4	50.0	50.0	12.8	2.5	1	3
YP233K1T	30.4	50.0	50.0	12.8	2.5	1	3
YP292K1T	30.4	50.0	50.0	12.8	2.5	1	3
YP293K1T	30.4	50.0	50.0	12.8	2.5	1	3
YP310KZT	29.5	45.0	48.0	12.0	1.5	1	3
YP385K1T	30.4	50.0	50.0	28.7	4.4	1	3
YP485K1T	30.4	50.0	50.0	29.7	4.4	1	3
YP515KNT, YP515KPT	28.0	45.0	46.0	28.5	4.3	1	3
YP550K1T	30.4	50.0	50.0	N/A	N/A	1	3
YPV030	28.0	43.3	50.0	N/A	N/A	1	2
YPV038	28.0	43.3	50.0	N/A	N/A	1	2
YPV066	30.4	50.0	50.0	8.4	0.9	1	3
YPV096	30.4	50.0	50.0	8.4	0.9	1	3

N/A = Not Available

## 14 YH\*/YHV\* compressors

Compressor	PS (bar)		TS LP side (°C)	Internal free volume (L)		Fluid group	PED category
	LP side	HP side		LP side	HP side		
YH04K1E	23.5	38	50.0	4.1	0.5	1 2	2 1
YH06K1E	23.5	38	50.0	4.2	0.5	1 2	2 1
YH07K1E	23.5	38	50.0	4.3	0.5	1 2	2 1
YH09K1E	23.5	38	50.0	4.8	0.5	1 2	2 1
YH11K1E	23.5	38	50.0	6.4	0.6	1 2	2 1
YH13K1E	23.5	38	50.0	6.4	0.6	1 2	2 1
YH16K1E	23.5	38.0	50.0	6.4	0.6	1 2	2 1
YH23K1E, YH23K1G	30.4	50.0	55.0	12.6	1.5	1	3
YH28K1E, YH28K1G	30.4	50.0	55.0	12.6	1.5	1	3
YH33K1E, YH33K1G	30.4	50.0	55.0	12.6	1.5	1	3
YH38K1E, YH38K1G	30.4	50.0	55.0	12.6	1.5	1	3
YH04K1P	28.0	49.0	50.0	2.1	0.4	1	2
YH05K1P	28.0	49.0	50.0	2.1	0.4	1	2
YH06K1P	28.0	49.0	50.0	3.6	0.4	1	2
YH09K1P	28.0	49.0	50.0	3.6	0.4	1	2
YH12K1P	28.0	49.0	50.0	3.6	0.4	1	2
YH15K1P	28.0	49.0	50.0	6.4	0.6	1	2
YHV0182P-9X9	28.0	49.0	50.0	2.6	0.4	1	2
YHV0211U-3X9	17.0	32.0	50.0	2.5	0.4	1	1
YHV0252P-9X9	28.0	49.0	50.0	2.6	0.4	1	2
YHV0291U-3X9	17.0	32.0	50.0	2.5	0.4	1	1
YHV029RG-9X9	21.0	42.0	50.0	2.0	0.3	1	1
YHV029RT-9X9	21.0	42.0	50.0	2.0	0.3	1	1
YHV0382P-4X9	28.0	49.0	50.0	3.1	0.4	1	2
YHV0382P-9X9	28.0	49.0	50.0	3.1	0.4	1	2
YHV0461U-9X9	17.0	32.0	50.0	3.1	0.4	1	2
YHV046RG-4X9	21.0	42.0	50.0	2.0	0.3	1	1
YHV046RG-9X9	21.0	42.0	50.0	2.0	0.3	1	1
YHV046RT-4X9	21.0	42.0	50.0	2.0	0.3	1	1
YHV046RT-9X9	21.0	42.0	50.0	2.0	0.3	1	1
YHV072RG-4X9	21.0	42.0	50.0	3.8	0.6	1	2
YHV072RT-4X9	21.0	42.0	50.0	3.8	0.6	1	2

## 15 YB\*/YBD\*/YBV\*/YBVH\*/YSVH\* compressors

Compressor	PS (bar)		TS LP side (°C)	Internal free volume (L)		Fluid group	PED category
	LP side	HP side		LP side	HP side		
YB12K1E	23.5	38.0	50.0	4.1	0.5	1	2
						2	1
YB17K1E	23.5	38.0	50.0	4.2	0.5	1	2
						2	1
YB21K1E	23.5	38.0	50.0	4.3	0.5	1	2
						2	1
YB24K1E	23.5	38.0	50.0	4.8	0.5	1	2
						2	1
YB31K1E	23.5	38.0	50.0	6.4	0.6	1	2
						2	1
YB36K1E	23.5	38.0	50.0	6.4	0.6	2	1
						2	1
YB45K1E	23.5	38.0	50.0	6.4	0.6	1	2
						2	1
YB56K1G	14.0	32.0	44.0	11.8	1.5	1	2
YB64K1G	14.0	32.0	44.0	11.8	1.5	1	2
YB81K1G	14.0	32.0	44.0	12.7	1.5	1	2
YB97K1G	14.0	32.0	44.0	12.7	1.5	1	2
YBD17K1E	23.5	38.0	50.0	4.3	0.5	1	2
						2	1
YBD24K1E	23.5	38.0	50.0	4.8	0.5	1	2
						2	1
YBD31K1E	23.5	38.0	50.0	6.4	0.6	1	2
						2	1
YBD36K1E	23.5	38.0	50.0	6.4	0.6	1	2
						2	1
YBD45K1E	23.5	38.0	50.0	6.4	0.6	1	2
						2	1
YBV0211U-3X9	17.0	27.5	50.0	2.2	0.4	1	1
YBV0291U-3X9	17.0	27.5	50.0	2.2	0.4	1	1
YBV0461U-9X9	17.0	27.5	50.0	3.1	0.4	1	2
YBVH0211U-3X9	16.3	28.0	50.0	2.2	0.4	1	1
YBVH0291U-3X9	16.3	28.0	50.0	2.2	0.4	1	1
YBVH0291U-9X9	16.3	28.0	50.0	2.2	0.4	1	1
YBVH0292W-3X9	15.5	28.0	50.0	2.2	0.4	1	1
YBVH0461U-4X9	16.3	28.0	50.0	2.2	0.4	1	1
YBVH0461U-9X9	16.3	28.0	50.0	2.2	0.4	1	1
YSVH0211U-3X9	16.3	28.0	50.0	2.6	0.4	1	1
YSVH0291U-3X9	16.5	28.0	50.0	2.6	0.4	1	1
YSVH0461U-4X9	16.5	28.0	50.0	2.6	0.4	1	1
YSVH0461U-9X9	16.5	28.0	50.0	2.6	0.4	1	1

## 16 YF\*/YFI\*/YFJ\* compressors

Compressor	PS (bar)		TS LP side (°C)	Internal free volume (L)		Fluid group	PED category
	LP side	HP side		LP side	HP side		
YF05K1E	23.5	38.0	50.0	4.1	0.5	1	2
						2	1
YF06K1E	23.5	38.0	50.0	4.2	0.5	1	2
						2	1
YF07K1E	23.5	38.0	50.0	4.2	0.5	1	2
						2	1
YF09K1E	23.5	38.0	50.0	4.3	0.5	1	2
						2	1
YF10K1E	23.5	38.0	50.0	6.4	0.6	1	2
						2	1
YF13K1E	23.5	38.0	50.0	6.4	0.6	1	2
						2	1
YF15K1E	23.5	38.0	50.0	6.4	0.6	1	2
						2	1
YF19K1E	23.5	38.0	50.0	6.4	0.6	1	2
						2	1
YF19K5E	23.5	38.0	50.0	6.4	0.6	1	2
						2	1
YFI10K1E	23.5	38.0	50.0	6.4	0.6	1	2
YFI15K1E	23.5	38.0	50.0	6.4	0.6	1	2
YFI19K1E	23.5	38.0	50.0	6.4	0.6	1	2
YFJ10K1E	23.5	38.0	50.0	6.4	0.6	1	2
YFJ15K1E	23.5	38.0	50.0	6.4	0.6	1	2
YFJ19K1E	23.5	38.0	50.0	6.4	0.6	1	2

## 17 YRH\*/YRHV\* compressors

Compressor	PS (bar)		TS LP side (°C)	Internal free volume (L)		Fluid group	PED category
	LP side	HP side		LP side	HP side		
YRH72KTE	20.0	32.0	50.0	N/A	N/A	1	2
YRH72KTG	20.0	32.0	50.0	N/A	N/A	1	2
YRHV72KTE	20.0	32.0	50.0	N/A	N/A	1	2
YRHV72KTG	20.0	32.0	50.0	N/A	N/A	1	2
YRH81KTE	20.0	32.0	50.0	N/A	N/A	1	2
YRH81KTG	20.0	32.0	50.0	N/A	N/A	1	2
YRHV81KTE	20.0	32.0	50.0	N/A	N/A	1	2
YRHV81KTG	20.0	32.0	50.0	N/A	N/A	1	2

N/A = Not Available

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