ENGINEERING TOMORROW

Data sheet | Commercial Compressors

Overview of oil types

Introduction

This document presents an overview of oil types and their technical specifications for Danfoss Commercial Compressors. Each Danfoss oil is specifically selected and tuned with additives for optimal performance in the indicated compressor series. When oil top-up is needed, always use the oil type as listed in the below table. Otherwise compressor warranty may be voided.

Compressors and oil types

	Compressor series	Refrigerant	Factory charged oil type		Oil type for top-up
Maneurop reciprocating compressors	NTZ	R404A,R452A*	Polyolester	175PZ	175PZ
	MT	R22	Mineral	160P	160P
	MTZ	R404A, R507, R134a, R407A, R407C, R407F,R448A,R449A,R452A*, R513A*	Polyolester	175PZ	175PZ
	VTZ	R404A, R507, R134a, R407A, R407C, R407F	Polyolester	160PZ	175PZ
	Scroll compressors	HRM/HLM/HCM	R22	Alkylbenzene	160ABM
Scroll compressors	HRP/HLP	R407C	Polyvinylether	160HV	160HV/320HV
	HCP	R407C	Polyvinylether	320HV	320HV
	HRH/HLH/HLJ	R410A	Polyvinylether	160HV	160HV/320HV
	HCJ/DCJ	R410A	Polyvinylether	320HV	320HV
	MLM015-076	R22	Alkylbenzene	160ABM	160ABM
	MLM116	R22	Mineral	160P	160P
	MLZ015-048	R22, R404A, R134a, R407A, R407C, R407F	Polyvinylether	160HV	160HV/320HV
	MLZ058-076	R22, R404A, R134a, R407A, R407C, R407F	Polyvinylether	320HV	320HV
	MLZ116	R404A	Polyvinylether	160HV	160HV/320HV
	MLZ(evolution A)	R22, R404A, R134a, R407A, R407C, R407F, R448A, R449A, R452A	Polyolester	215PZ	215PZ
	LLZ	R404A, R507	Polyvinylether	160HV	160HV/320HV
	LLZ(evolution A)	R404A, R507, R452A, R448A, R449A	Polyolester	215PZ	215PZ
	SM	R22	Mineral	160P	160P
	SY	R22, R407C, R134a	Polyolester	320SZ	320SZ
	SZ	R407C, R134a	Polyolester	160SZ	160SZ
	SH/DSH	R410A	Polyolester	160SZ	160SZ
	PSH	R410A	Polyolester	160SZ	160SZ
	WSH	R410A	Polyolester	160SZ	160SZ
	VZH028-035-044	R410A	Polyvinylether	160HV	160HV/320HV
	VLZ028-035-044	R404A/R448A/R449A	Polyolester	215PZ	215PZ
	VZH052-065	R410A	Polyvinylether	160HV	160HV/320HV
	VSH/VZH088-117-170	R410A	Polyolester	160SZ	160SZ

Note: for compressors that are factory-charged with 160HV (PVE32), it is allowable to top-up the compressors with 320HV (PVE68). There will be no reliability risks even with 100% 320HV, yet performance may drop some. Danfoss provides 320HV as accessories.

*Please consult guideline for qualified models

Ordering information

Code n°	Type	Description	Application	Packaging*	
				type	Qty.
7754001	160P	Mineral oil, 160P, 2 liter can	SM, MT, MLM116	Multipack	8
7754002	160P	Mineral oil, 160P, 5 liter can	SM, MT, MLM116	Multipack	4
7754023	160SZ	POE lubricant, 160SZ, 1 liter can	SZ, SH, PSH, WSH, DSH, VZH088-117-170, VSH088-117-170	Multipack	12
120Z0571	160SZ	POE lubricant, 160SZ, 2.5 liter can	SZ, SH, PSH, WSH, DSH, VZH088-117-170, VSH088-117-170	Multipack	4
7754121	320SZ	POE lubricant, 320SZ, 1 liter can	SY	Multipack	12
120Z0572	320SZ	POE lubricant, 320SZ, 2.5 liter can	SY	Multipack	4
120Z5034	320HV	PVE lubricant, 320HV (FVC68D), 1 liter can	DCJ, HRP, HLP, HCP, HRH, HLH, HLJ, HCJ, HHP, MLZ/LLZ, VZH028-035-044, VZH052-065**, MLZ116	Single pack	1
120Z0639	175PZ	POE lubricant 175PZ, 2,5 liter can	MTZ, NTZ, VTZ	Multipack	4
120Z0638	175PZ	POE lubricant 175PZ, 1 liter can	MTZ, NTZ, VTZ	Multipack	12
120Z0648	215PZ	POE lubricant 215PZ (RL46HB), 1 liter can	MLZ evolution index A LLZ evolution index A VLZ028-035-044	Multipack	12

*Multipacks refer to deliveries from Danfoss Commercial Compressors to central Danfoss stocks or direct deliveries to OEM customers. These products may be available as single packs for end customers.

** VZH052-065 will be released soon

***After emptying current stock, it will be no more provide