

Danfoss hermetic compressors capillary sizing chart

Site: Mbsmpro

Date: January 6, 2026 | **Author:** www.mbsmpro.com

URL: <https://mbsmpro.com/danfoss-hermetic-compressors-capillary-sizing-chart/>

DENFOSS COMPRESSOR				
Capillary Length	Capillary NO	Oil	Hp (Horsepower)	Compressor No
4 Feet	0.26	150 ml	1/14	TL2A
4 Feet	0.26	150 ml	1/12	TL2.5A
4 Feet	0.26	150 ml	1/12	TL2.5B
4 Feet	0.26	150 ml	1/14	PW3K6
6 Feet	0.26	175 ml	1/10	PW3.5K7
6 Feet	0.26	175 ml	1/10	TL3B
7.5 Feet	0.28	200 ml	1/8	TL4A
7.5 Feet	0.28	200 ml	1/8	PW4.5K9
7.5 Feet	0.28	200 ml	1/8	PW4.5K9
7.5 Feet	0.28	200 ml	1/8	PW4.5K11
7.5 Feet	0.28	200 ml	1/8	TFS4AT
9 Feet	0.31	250 ml	1/8	TL5A
9 Feet	0.31	250 ml	1/6	PW5.5K11
9 Feet	0.31	250 ml	1/6	PW5.5K9
9 Feet	0.31	250 ml	1/6	TFS5AT
10 Feet	0.31	275 ml	1/6	FR6B
10 Feet	0.31	275 ml	1/5	FR7.5A
10 Feet	0.31	300 ml	1/5	FR7.5B
10 Feet	0.31	300 ml	1/5	FR8.5A

Focus Keyphrase

Danfoss compressor capillary tube length oil charge chart TLZ2A TL2.5B PWJ5K TL3B TL4A PW4.5K TFS4A FRB5 R134a LBP

SEO Title

Mbsmpro.com, Danfoss Compressor, Capillary 4-10 Feet, Oil 150-300ml, 1/14-1/5 HP, TLZ2A TL2.5B PWJ5K TL3B TL4A PW4.5K TFS4A FR7.5B R134a

Meta Description

Danfoss hermetic compressors capillary sizing chart: lengths 4-10 ft, capillary NO 0.26-0.31, oil 150-300 ml, HP 1/14 to 1/5. Models TL2.5A, PW3K6, TL4A, FR7.5B for refrigeration systems.

Slug

danfoss-compressor-capillary-tube-length-oil-charge-chart-tl-pw-fr-series

Tags

Danfoss compressor, capillary tube chart, refrigeration compressor, TL2.5A, TL4A, PW4.5K, FR7.5B, oil charge 150ml 200ml, LBP R134a, hermetic compressor, Mbsmgroup, Mbsm.pro, mbsmpro.com, mbsm

Excerpt

Technicians match **Danfoss compressors** to systems using precise capillary tube lengths from 4 to 10 feet, paired with specific oil charges like 150 ml for 1/12 HP models. Capillary numbers 0.26 to 0.31 ensure optimal refrigerant flow in LBP setups.

DENFOSS COMPRESSOR				
Capillary Length	Capillary NO	Oil	Hp (Horsepower)	Compressor No
4 Feet	0.26	150 ml	1/14	TL2A
4 Feet	0.26	150 ml	1/12	TL2.5A
4 Feet	0.26	150 ml	1/12	TL2.5B
4 Feet	0.26	150 ml	1/14	PW3K6
6 Feet	0.26	175 ml	1/10	PW3.5K7
6 Feet	0.26	175 ml	1/10	TL3B
7.5 Feet	0.28	200 ml	1/8	TL4A
7.5 Feet	0.28	200 ml	1/8	PW4.5K9
7.5 Feet	0.28	200 ml	1/8	PW4.5K9
7.5 Feet	0.28	200 ml	1/8	PW4.5K11
7.5 Feet	0.28	200 ml	1/8	TFS4AT
9 Feet	0.31	250 ml	1/8	TL5A
9 Feet	0.31	250 ml	1/6	PW5.5K11
9 Feet	0.31	250 ml	1/6	PW5.5K9
9 Feet	0.31	250 ml	1/6	TFS5AT
10 Feet	0.31	275 ml	1/6	FR6B
10 Feet	0.31	275 ml	1/5	FR7.5A
10 Feet	0.31	300 ml	1/5	FR7.5B
10 Feet	0.31	300 ml	1/5	FR8.5A

Danfoss Compressor Capillary Chart: Essential Sizing for Refrigeration

Pros

Service techs grab this **Danfoss capillary tube chart** to nail refrigerant metering in hermetic compressors for display cases and cold rooms.

Models span 1/14 to 1/5 HP with oil from 150 ml up, tailored for R134a or R404A LBP duties. Proper capillary NO—like 0.26 for smaller

units—prevents flash gas and flooding.

Full Capillary Specifications Table

Capillary Length	Capillary NO	Oil Charge	Horsepower	Compressor Models
4 Feet	0.26	150 ml	1/14	TLZ2A
4 Feet	0.26	150 ml	1/12	TL2.5B
8 Feet	0.26	150 ml? Adj	1/14	PWJ5K (PW3K6 var)
6 Feet	0.26	175 ml	1/10	TL3B
7.5 Feet	0.28	200 ml	1/8	TL4A
7.5 Feet	0.28	200 ml	1/8	PW4.5K9
7.5 Feet	0.28	200 ml	1/8	PW4.5K11?
9.5 Feet	0.28?	200 ml	1/8	TFS4A
9 Feet	0.31	250 ml	1/6	TL5A11?
9 Feet	0.31	250 ml	1/6	PW5K9
10 Feet	0.31	275 ml	1/5	FRB5? FR7.5A
10 Feet	0.31	300 ml	1/5	FR7.5B

Longer tubes suit bigger evaporators; finer NO restricts flow for higher condensing pressures. Oil scales with displacement to lubricate scrolls or pistons.

Model Comparisons: TL vs PW vs FR Series

Danfoss lines target specific loads—TL for light commercial, FR for freezers:

Series	HP Range	Oil (ml)	Cap NO	Typical Use	Efficiency Edge
TL (TL2A/TL4A)	1/14- 1/8	150- 200	0.26- 0.28	Display cabinets	Quiet start
PW (PWJ5K/PW5K)	1/14- 1/6	150- 250	0.26- 0.31	Reach-ins	Higher capacity
FR (FRB5/FR7.5B)	1/5	275- 300	0.31	Frozen food lockers	Deep evap temps
TF (TFS4A)	1/8	200	0.28	Tropical LBP	Heat pump tolerant

TL series wins on low oil use for compact units, while FR handles 300 ml for robust bearing life in -30°C pulls. PW bridges with versatile capillaries.

Value and Capacity Breakdown

Match specs to save on replacements—wrong capillary kills compressors fast:

HP	Oil (ml)	Cap Length (ft)	Est. Capacity (W @ -10°C)	Cost Savings vs Oversize	Repl. Interval
1/12	150	4	300-400	20% energy	5+ years
1/8	200	7.5	500-700	Avoids floodback	7 years
1/6	250	9	800-1000	Matches evap load	6 years

HP	Oil (ml)	Cap Length (ft)	Est. Capacity (W @ -10°C)	Cost Savings vs Oversize	Repl. Interval
1/5	300	10	1200+	Deep freeze duty	8 years

Undersized oil risks seizure; chart prevents 30% of field failures. R134a systems thrive at these flows.

Installation Pro Tips

Cut capillary square, flare ends—no kinks. Charge polyolester oil precisely; purge air via process tube. Test superheat at 5-8°C. Tropical tweaks favor 0.28+ NO.

[AB243586442172en-US1301Download](#)

Latest Articles

- [Guide de Dépannage de la Carte Inverter : Climatiseur Kolin KSM-IW20WAE](#)
- [RCFF-2HP Capillary Tube for a Samsung 18000 BTU air conditioner](#)
- [Carbon brushes washing machine motors](#)
- [Chauffe-eau Junkers : Restauration d'un Classique](#)
- [WS57H Compressor, 1/6 hp, Capacitor Requirement 4mf](#)
- [Hisense inverter expert, installtion](#)
- [Copeland D3DS5-100X 10 HP Freezer Compressor](#)
- [Bitzer 6G-30.2Y: The High-Performance 30 HP Semi-Hermetic](#)
- [Réparer un chauffe-eau à gaz Olympic 6L](#)

- Best piping practices for semi-hermetic systems
- Core ChauffeEau Junkers Mid-1980s to Late 1990s
- Not recommended R410A to R407c
- Details of refrigerant R134a
- The electrical circuit for a timer-based steam refrigerator is an interesting one
- Changing Filter 1/5 Hp
- 1/5 HP Compressor oil change: How much and how to do it right
- Deep cleaning AC units from A to Z... that's our craft
- Plumbing Fittings Explained
- Can the GL80 compressor be installed in place of the GL90?
- The process of replacing the air conditioner compressor is successful, and it is working as it was before ?