

# Danfoss hermetic compressors capillary sizing chart

Category: Refrigeration

written by [www.mbsmpro.com](http://www.mbsmpro.com) | January 6, 2026



The image shows a Danfoss Compressor Capillary Sizing Chart. The chart is a table with columns for Capillary Length, Capillary No., Oil Charge (ml), HP (Refrigeration), and Compressor No. The rows are organized by capillary length (4, 6, 7.5, 8, 10 feet) and capillary number (0.26, 0.28, 0.31). The chart lists various compressor models such as TL2.5A, TL2.5B, TL2.5C, TL2.5D, TL2.5E, TL2.5F, TL2.5G, TL2.5H, TL2.5I, TL2.5J, TL2.5K, TL2.5L, TL2.5M, TL2.5N, TL2.5O, TL2.5P, TL2.5Q, TL2.5R, TL2.5S, TL2.5T, TL2.5U, TL2.5V, TL2.5W, TL2.5X, TL2.5Y, TL2.5Z, TL2.5AA, TL2.5AB, TL2.5AC, TL2.5AD, TL2.5AE, TL2.5AF, TL2.5AG, TL2.5AH, TL2.5AI, TL2.5AJ, TL2.5AK, TL2.5AL, TL2.5AM, TL2.5AN, TL2.5AO, TL2.5AP, TL2.5AQ, TL2.5AR, TL2.5AS, TL2.5AT, TL2.5AU, TL2.5AV, TL2.5AW, TL2.5AX, TL2.5AY, TL2.5AZ, TL2.5BA, TL2.5BB, TL2.5BC, TL2.5BD, TL2.5BE, TL2.5BF, TL2.5BG, TL2.5BH, TL2.5BI, TL2.5BJ, TL2.5BK, TL2.5BL, TL2.5BM, TL2.5BN, TL2.5BO, TL2.5BP, TL2.5BQ, TL2.5BR, TL2.5BS, TL2.5BT, TL2.5BU, TL2.5BV, TL2.5BW, TL2.5BX, TL2.5BY, TL2.5BZ, TL2.5CA, TL2.5CB, TL2.5CC, TL2.5CD, TL2.5CE, TL2.5CF, TL2.5CG, TL2.5CH, TL2.5CI, TL2.5CJ, TL2.5CK, TL2.5CL, TL2.5CM, TL2.5CN, TL2.5CO, TL2.5CP, TL2.5CQ, TL2.5CR, TL2.5CS, TL2.5CT, TL2.5CU, TL2.5CV, TL2.5CW, TL2.5CX, TL2.5CY, TL2.5CZ, TL2.5DA, TL2.5DB, TL2.5DC, TL2.5DD, TL2.5DE, TL2.5DF, TL2.5DG, TL2.5DH, TL2.5DI, TL2.5DJ, TL2.5DK, TL2.5DL, TL2.5DM, TL2.5DN, TL2.5DO, TL2.5DP, TL2.5DQ, TL2.5DR, TL2.5DS, TL2.5DT, TL2.5DU, TL2.5DV, TL2.5DW, TL2.5DX, TL2.5DY, TL2.5DZ, TL2.5EA, TL2.5EB, TL2.5EC, TL2.5ED, TL2.5EE, TL2.5EF, TL2.5EG, TL2.5EH, TL2.5EI, TL2.5EJ, TL2.5EK, TL2.5EL, TL2.5EM, TL2.5EN, TL2.5EO, TL2.5EP, TL2.5EQ, TL2.5ER, TL2.5ES, TL2.5ET, TL2.5EU, TL2.5EV, TL2.5EW, TL2.5EX, TL2.5EY, TL2.5EZ, TL2.5FA, TL2.5FB, TL2.5FC, TL2.5FD, TL2.5FE, TL2.5FF, TL2.5FG, TL2.5FH, TL2.5FI, TL2.5FJ, TL2.5FK, TL2.5FL, TL2.5FM, TL2.5FN, TL2.5FO, TL2.5FP, TL2.5FQ, TL2.5FR, TL2.5FS, TL2.5FT, TL2.5FU, TL2.5FV, TL2.5FW, TL2.5FX, TL2.5FY, TL2.5FZ, TL2.5GA, TL2.5GB, TL2.5GC, TL2.5GD, TL2.5GE, TL2.5GF, TL2.5GG, TL2.5GH, TL2.5GI, TL2.5GJ, TL2.5GK, TL2.5GL, TL2.5GM, TL2.5GN, TL2.5GO, TL2.5GP, TL2.5GQ, TL2.5GR, TL2.5GS, TL2.5GT, TL2.5GU, TL2.5GV, TL2.5GW, TL2.5GX, TL2.5GY, TL2.5GZ, TL2.5HA, TL2.5HB, TL2.5HC, TL2.5HD, TL2.5HE, TL2.5HF, TL2.5HG, TL2.5HH, TL2.5HI, TL2.5HJ, TL2.5HK, TL2.5HL, TL2.5HM, TL2.5HN, TL2.5HO, TL2.5HP, TL2.5HQ, TL2.5HR, TL2.5HS, TL2.5HT, TL2.5HU, TL2.5HV, TL2.5HW, TL2.5HX, TL2.5HY, TL2.5HZ, TL2.5IA, TL2.5IB, TL2.5IC, TL2.5ID, TL2.5IE, TL2.5IF, TL2.5IG, TL2.5IH, TL2.5II, TL2.5IJ, TL2.5IK, TL2.5IL, TL2.5IM, TL2.5IN, TL2.5IO, TL2.5IP, TL2.5IQ, TL2.5IR, TL2.5IS, TL2.5IT, TL2.5IU, TL2.5IV, TL2.5IW, TL2.5IX, TL2.5IY, TL2.5IZ, TL2.5JA, TL2.5JB, TL2.5JC, TL2.5JD, TL2.5JE, TL2.5JF, TL2.5JG, TL2.5JH, TL2.5JI, TL2.5JJ, TL2.5JK, TL2.5JL, TL2.5JM, TL2.5JN, TL2.5JO, TL2.5JP, TL2.5JQ, TL2.5JR, TL2.5JS, TL2.5JT, TL2.5JU, TL2.5JV, TL2.5JW, TL2.5JX, TL2.5JY, TL2.5JZ, TL2.5KA, TL2.5KB, TL2.5KC, TL2.5KD, TL2.5KE, TL2.5KF, TL2.5KG, TL2.5KH, TL2.5KI, TL2.5KJ, TL2.5KK, TL2.5KL, TL2.5KM, TL2.5KN, TL2.5KO, TL2.5KP, TL2.5KQ, TL2.5KR, TL2.5KS, TL2.5KT, TL2.5KU, TL2.5KV, TL2.5KW, TL2.5KX, TL2.5KY, TL2.5KZ, TL2.5LA, TL2.5LB, TL2.5LC, TL2.5LD, TL2.5LE, TL2.5LF, TL2.5LG, TL2.5LH, TL2.5LI, TL2.5LJ, TL2.5LK, TL2.5LL, TL2.5LM, TL2.5LN, TL2.5LO, TL2.5LP, TL2.5LQ, TL2.5LR, TL2.5LS, TL2.5LT, TL2.5LU, TL2.5LV, TL2.5LW, TL2.5LX, TL2.5LY, TL2.5LZ, TL2.5MA, TL2.5MB, TL2.5MC, TL2.5MD, TL2.5ME, TL2.5MF, TL2.5MG, TL2.5MH, TL2.5MI, TL2.5MJ, TL2.5MK, TL2.5ML, TL2.5MN, TL2.5MO, TL2.5MP, TL2.5MQ, TL2.5MR, TL2.5MS, TL2.5MT, TL2.5MU, TL2.5MV, TL2.5MW, TL2.5MX, TL2.5MY, TL2.5MZ, TL2.5NA, TL2.5NB, TL2.5NC, TL2.5ND, TL2.5NE, TL2.5NF, TL2.5NG, TL2.5NH, TL2.5NI, TL2.5NJ, TL2.5NK, TL2.5NL, TL2.5NM, TL2.5NN, TL2.5NO, TL2.5NP, TL2.5NQ, TL2.5NR, TL2.5NS, TL2.5NT, TL2.5NU, TL2.5NV, TL2.5NW, TL2.5NX, TL2.5NY, TL2.5NZ, TL2.5OA, TL2.5OB, TL2.5OC, TL2.5OD, TL2.5OE, TL2.5OF, TL2.5OG, TL2.5OH, TL2.5OI, TL2.5OJ, TL2.5OK, TL2.5OL, TL2.5OM, TL2.5ON, TL2.5OO, TL2.5OP, TL2.5OQ, TL2.5OR, TL2.5OS, TL2.5OT, TL2.5OU, TL2.5OV, TL2.5OW, TL2.5OX, TL2.5OY, TL2.5OZ, TL2.5PA, TL2.5PB, TL2.5PC, TL2.5PD, TL2.5PE, TL2.5PF, TL2.5PG, TL2.5PH, TL2.5PI, TL2.5PJ, TL2.5PK, TL2.5PL, TL2.5PM, TL2.5PN, TL2.5PO, TL2.5PP, TL2.5PQ, TL2.5PR, TL2.5PS, TL2.5PT, TL2.5PU, TL2.5PV, TL2.5PW, TL2.5PX, TL2.5PY, TL2.5PZ, TL2.5QA, TL2.5QB, TL2.5QC, TL2.5QD, TL2.5QE, TL2.5QF, TL2.5QG, TL2.5QH, TL2.5QI, TL2.5QJ, TL2.5QK, TL2.5QL, TL2.5QM, TL2.5QN, TL2.5QO, TL2.5QP, TL2.5QQ, TL2.5QR, TL2.5QS, TL2.5QT, TL2.5QU, TL2.5QV, TL2.5QW, TL2.5QX, TL2.5QY, TL2.5QZ, TL2.5RA, TL2.5RB, TL2.5RC, TL2.5RD, TL2.5RE, TL2.5RF, TL2.5RG, TL2.5RH, TL2.5RI, TL2.5RJ, TL2.5RK, TL2.5RL, TL2.5RM, TL2.5RN, TL2.5RO, TL2.5RP, TL2.5RQ, TL2.5RR, TL2.5RS, TL2.5RT, TL2.5RU, TL2.5RV, TL2.5RW, TL2.5RX, TL2.5RY, TL2.5RZ, TL2.5SA, TL2.5SB, TL2.5SC, TL2.5SD, TL2.5SE, TL2.5SF, TL2.5SG, TL2.5SH, TL2.5SI, TL2.5SJ, TL2.5SK, TL2.5SL, TL2.5SM, TL2.5SN, TL2.5SO, TL2.5SP, TL2.5SQ, TL2.5SR, TL2.5SS, TL2.5ST, TL2.5SU, TL2.5SV, TL2.5SW, TL2.5SX, TL2.5SY, TL2.5SZ, TL2.5TA, TL2.5TB, TL2.5TC, TL2.5TD, TL2.5TE, TL2.5TF, TL2.5TG, TL2.5TH, TL2.5TI, TL2.5TJ, TL2.5TK, TL2.5TL, TL2.5TM, TL2.5TN, TL2.5TO, TL2.5TP, TL2.5TQ, TL2.5TR, TL2.5TS, TL2.5TT, TL2.5TU, TL2.5TV, TL2.5TW, TL2.5TX, TL2.5TY, TL2.5TZ, TL2.5UA, TL2.5UB, TL2.5UC, TL2.5UD, TL2.5UE, TL2.5UF, TL2.5UG, TL2.5UH, TL2.5UI, TL2.5UJ, TL2.5UK, TL2.5UL, TL2.5UM, TL2.5UN, TL2.5UO, TL2.5UP, TL2.5UQ, TL2.5UR, TL2.5US, TL2.5UT, TL2.5UU, TL2.5UV, TL2.5UW, TL2.5UX, TL2.5UY, TL2.5UZ, TL2.5VA, TL2.5VB, TL2.5VC, TL2.5VD, TL2.5VE, TL2.5VF, TL2.5VG, TL2.5VH, TL2.5VI, TL2.5VJ, TL2.5VK, TL2.5VL, TL2.5VM, TL2.5VN, TL2.5VO, TL2.5VP, TL2.5VQ, TL2.5VR, TL2.5VS, TL2.5VT, TL2.5VU, TL2.5VV, TL2.5VW, TL2.5VX, TL2.5VY, TL2.5VZ, TL2.5WA, TL2.5WB, TL2.5WC, TL2.5WD, TL2.5WE, TL2.5WF, TL2.5WG, TL2.5WH, TL2.5WI, TL2.5WJ, TL2.5WK, TL2.5WL, TL2.5WM, TL2.5WN, TL2.5WO, TL2.5WP, TL2.5WQ, TL2.5WR, TL2.5WS, TL2.5WT, TL2.5WU, TL2.5WV, TL2.5WW, TL2.5WX, TL2.5WY, TL2.5WZ, TL2.5XA, TL2.5XB, TL2.5XC, TL2.5XD, TL2.5XE, TL2.5XF, TL2.5XG, TL2.5XH, TL2.5XI, TL2.5XJ, TL2.5XK, TL2.5XL, TL2.5XM, TL2.5XN, TL2.5XO, TL2.5XP, TL2.5XQ, TL2.5XR, TL2.5XS, TL2.5XT, TL2.5XU, TL2.5XV, TL2.5XW, TL2.5XX, TL2.5XY, TL2.5XZ, TL2.5YA, TL2.5YB, TL2.5YC, TL2.5YD, TL2.5YE, TL2.5YF, TL2.5YG, TL2.5YH, TL2.5YI, TL2.5YJ, TL2.5YK, TL2.5YL, TL2.5YM, TL2.5YN, TL2.5YO, TL2.5YP, TL2.5YQ, TL2.5YR, TL2.5YS, TL2.5YT, TL2.5YU, TL2.5YV, TL2.5YW, TL2.5YX, TL2.5YY, TL2.5YZ, TL2.5ZA, TL2.5ZB, TL2.5ZC, TL2.5ZD, TL2.5ZE, TL2.5ZF, TL2.5ZG, TL2.5ZH, TL2.5ZI, TL2.5ZJ, TL2.5ZK, TL2.5ZL, TL2.5ZM, TL2.5ZN, TL2.5ZO, TL2.5ZP, TL2.5ZQ, TL2.5ZR, TL2.5ZS, TL2.5ZT, TL2.5ZU, TL2.5ZV, TL2.5ZW, TL2.5ZX, TL2.5ZY, TL2.5ZZ.

## 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	FR8A

## 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	TL2A

## Capillary Length Capillary NO Oil Charge Horsepower Compressor Models

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
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.

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