

Sanitary Circulators

MARKET SECTORS

RESIDENTIAL.

APPLICATIONS

- Circulation of sanitary hot water.

TLCN Series



SPECIFICATIONS

PUMP

- **Flow rate:** up to 4 m³/h.
- **Head:** up to 6 m.
- **Temperature of pumped liquid:** +2°C ÷ +110°C (recommended up to 65°C). Avoid condensation and ice formation.
- **Maximum operating pressure:** 10 bar (PN 10).
- **Impeller:** made of composite material.
- **Wear ring:** ceramic.

MOTOR

- Wet rotor type, with bearings lubricated by the pumped liquid. Axial and radial bearings made of ceramic.
- Single-phase 230 V 50 Hz power supply. Terminal box axially integrated in the motor.
- Three speed hand selector motor.
- **Insulation class** 180 (H).
- **Protection class** IP 44.

CONSTRUCTION CHARACTERISTICS

- Electric circulator pumps for sanitary hot water circulation, at a recommended maximum temperature of 65°C, maximum hardness of 25° f (14°dH) and maximum viscosity of 10 mm²/s.
- Stainless steel pump body with 1", 1" ¼ and 1" ½ threaded connections.
- According to EN standards 60335-1, 60335-2-51, 55014-1, 55014-2.

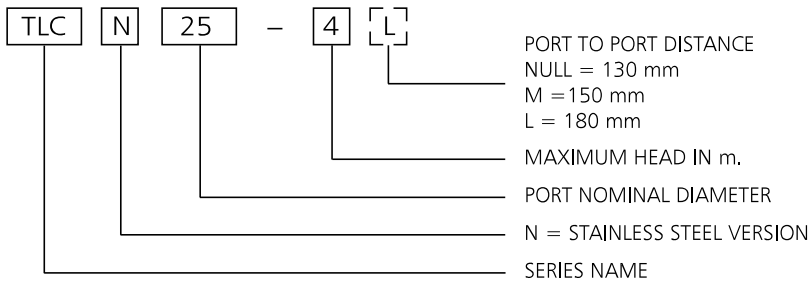
ACCESSORIES

- Pipe unions.
- Insulation shell.

INSTALLATION

- Suitable for installation in horizontal or vertical piping, in any position provided that motor axis is horizontal.

TLCN SERIES IDENTIFICATION CODE



EXAMPLE : TLCN 25-4L

TLC series circulator, stainless steel N version, port nominal diameter = 25, max head= 4 m, with port to port distance of 180 mm.

TABLE OF MATERIALS

PART	MATERIAL
Pump body	Stainless steel
Impeller	Composite material
Shaft	Ceramic
Inner jacket	Stainless steel
Wear ring	Ceramic
Bearings	Ceramic
Gaskets	EPDM

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Regulations (EC) n. 641/2009 and (EU) n. 622/2012 – Annex I – point 2 (Product information requirements)

- a) Energy efficiency index: note not applicable to these products.
- b) "The benchmark for most efficient circulators is $EEL \leq 0,20$ ": note not applicable to these products.
- c) Information relevant for disassembly, recycling or disposal at end-of-life: observe the current laws and by-laws governing sorted waste disposal. Consult the product operating manual.
- d) Information for circulators specifically designed to potable water uses: "This circulator is suitable for drinking water only".

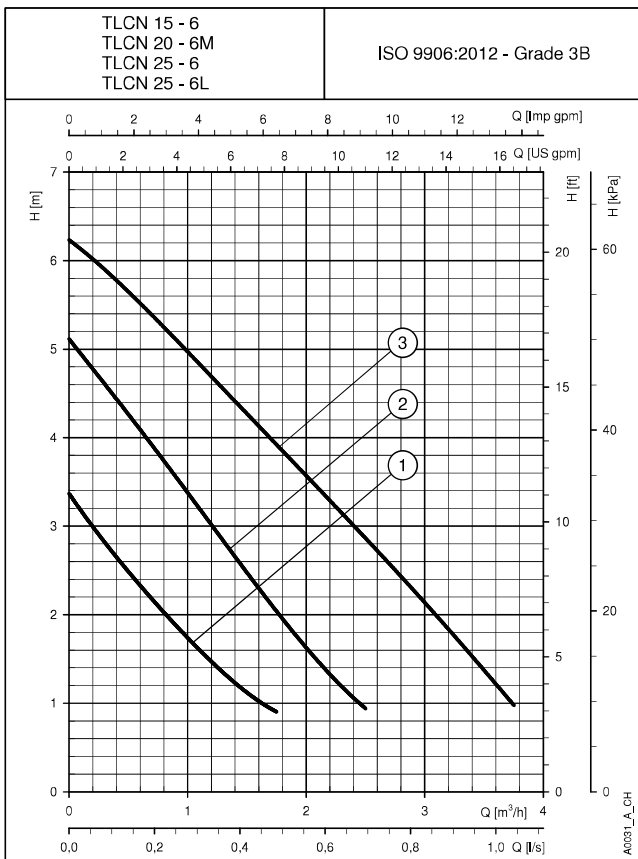
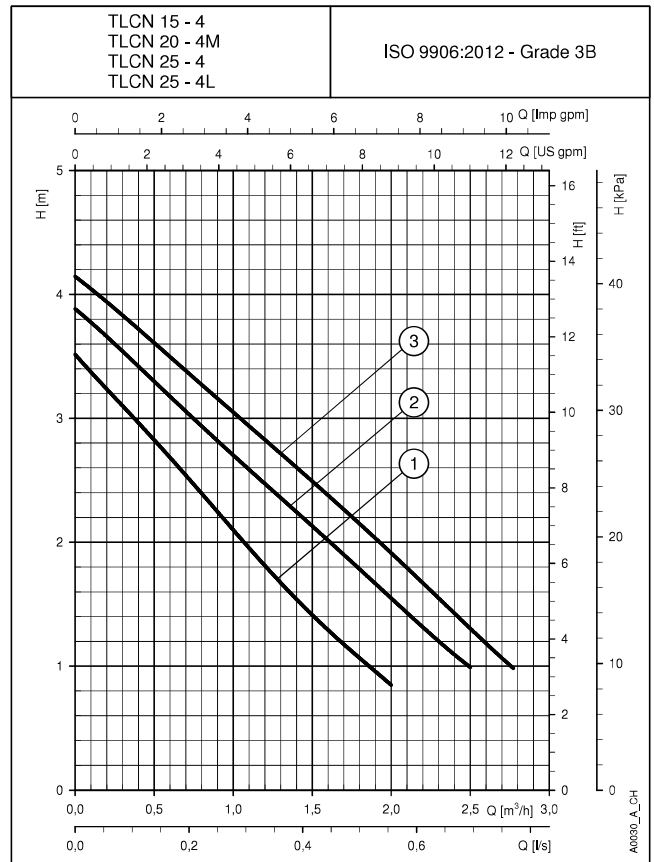
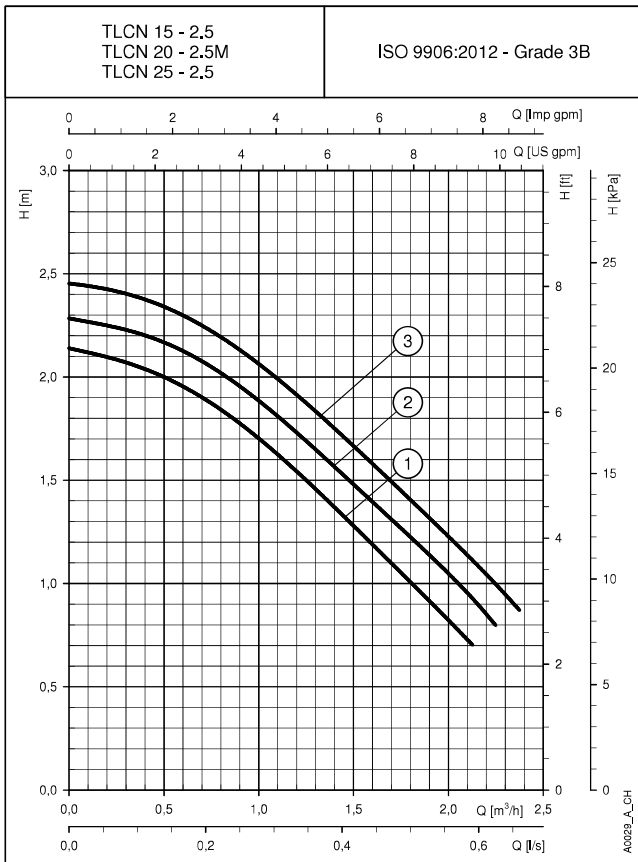
TLCN SERIES HYDRAULIC PERFORMANCE TABLE

PUMP TYPE	MAXIMUM ABSORBED POWER W	MAXIMUM ABSORBED CURRENT A	CAPACITOR		SPEED	Q = DELIVERY											
						l/s 0	0,2	0,3	0,4	0,5	0,7	0,8	1,0	1,2			
						m ³ /h 0	0,6	1,2	1,5	1,8	2,4	3,0	3,6	4,2			
230V 50Hz			μ F	V		H = TOTAL HEAD METRES COLUMN OF WATER											
TLCN 15-2.5	27	0,12	1,5	400	1	2,1	2,0	1,5	1,3	1,0							
TLCN 20-2.5M	32	0,14			2	2,3	2,1	1,7	1,5	1,2							
TLCN 25-2.5	35	0,15			3	2,5	2,3	1,9	1,7	1,4	0,8						
TLCN 15-4	33	0,14	1,5	400	1	3,5	2,7	1,8	1,4	1,1							
TLCN 20-4M	39	0,17			2	3,9	3,2	2,5	2,1	1,8	1,1						
TLCN 25-4 (L)	44	0,19			3	4,1	3,5	2,8	2,5	2,1	1,4						
TLCN 15-6	43	0,19	2,0	400	1	3,4	2,3	1,5	1,1	0,9							
TLCN 20-6M	65	0,28			2	5,1	4,1	3,0	2,5	2,0	1,1						
TLCN 25-6 (L)	80	0,34			3	6,2	5,5	4,7	4,3	3,9	3,0	2,1	1,2				

Hydraulic performances in compliance with ISO 9906:2012 - Grade 3B (ex ISO 9906:1999 - Annex A)

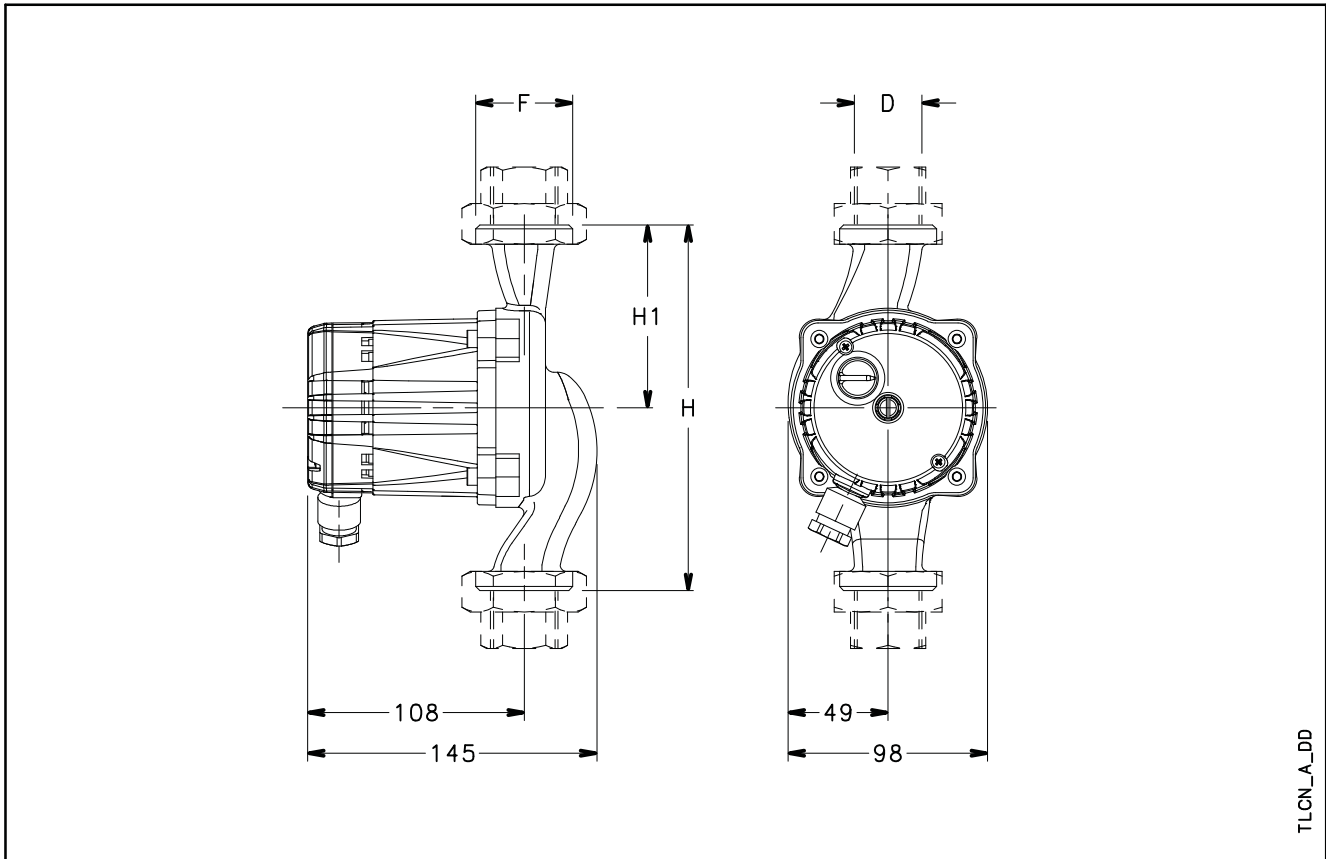
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TLCN SERIES SINGLE-PHASE OPERATING CHARACTERISTICS



These performances are valid for liquids with density $\rho = 1.0 \text{ Kg/dm}^3$ and kinematic viscosity $\nu = 1 \text{ mm}^2/\text{sec}$.

TLCN SERIES DIMENSIONS AND WEIGHTS



DIMENSIONS AND WEIGHTS TABLE

PUMP TYPE	DIMENSIONS (mm)					WEIGHT
	H	H1	D	F	DN	
TLCN 15-2.5	130	65	1/2"	G 1"	15	2,7
TLCN 20-2.5M	150	75	3/4"	G 1 1/4"	20	2,7
TLCN 25-2.5	130	65	1"	G 1 1/2"	25	2,7
TLCN 15-4	130	65	1/2"	G 1"	15	2,7
TLCN 20-4M	150	75	3/4"	G 1 1/4"	20	2,7
TLCN 25-4	130	65	1"	G 1 1/2"	25	2,7
TLCN 25-4L	180	90	1"	G 1 1/2"	25	2,8
TLCN 15-6	130	65	1/2"	G 1"	15	2,7
TLCN 20-6M	150	75	3/4"	G 1 1/4"	20	2,7
TLCN 25-6	130	65	1"	G 1 1/2"	25	2,7
TLCN 25-6L	180	90	1"	G 1 1/2"	25	2,8

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