

DHW PRODUCTION TANKS

ELECTRIC - U-TUBE HEATER

ENERGY RECOVERY FROM HEAT PUMP - DUAL VERSION

STAINLESS STEEL AISI 316L RANGE - FROM 500 TO 3 000L



CE compliance
• 2014/68/UE
• 2014/35/UE



U-tube heaters



Immersion heaters or electric cartridges



Stainless steel AISI 316L tank

DESCRIPTION

Description

Common features for all versions:

- Vertical stainless steel AISI 316L tank with 3 feet.
- Capacity from 500 to 6 000L.
- Maximum working pressure = 7 bar - Test pressure = 10 bar.
- Tappings (in accordance with the following diagram).
- Ø 400 mm inspection manhole⁽¹⁾.
- Removable thermal insulation (including the inspection manhole and the bottom of the tank):
 - Fire proof rating : M1 (Euroclass B): 60 mm mineral wool ($\lambda = 0,032 \text{ W/m/K} - 32 \text{ kg/m}^3$) + flexible PVC jacket.
 - Fire proof rating : M0 (Euroclass A2): 50 mm rockwool ($\lambda = 0,034 \text{ W/m/K} - 40 \text{ kg/m}^3$) + Isoxal metal sheet jacket.

⁽¹⁾Note : In accordance with the recommendations of the French General Directorate for Health.

Electric or dual version only :

- Reinforced 825 incoloy heating element(s).
- Power :
 - 3 to 12 kW : 230/400 V three-phase;
 - > 12 kW : 400/700 V three-phase.
- Attachment : 3 to 12 kW : DN40 / > 12 kW : M77.
- Immersion heater fixed on the manhole.
- Temperature control :
 - Electrical power $\leq 20 \text{ kW}$: Three-phase control/safety box 30 A, 400 V, fitted to the top of the immersion heater

- (double safety thermostat + connected switch).
- Electrical power > 20 kW : Double unipolar safety thermostat.

Electric cartridge(s) version :

- Removable, supplied in a stainless steel sleeve.
- Low head loss (6 W/cm²).
- M77 connection.
- Double unipolar safety thermostat.
- Cylinder lock on the manhole or/and on the tank.

U-tube heater ou dual version only :

- Removable U-tube heater with bundle made of 316 L stainless steel, mounted on the Ø 400 mm inspection manhole.
- Input/output DN32F or DN50F + DN8F purge.
- Primary system = 90/70°C - Secondary system = 10/60°C.
- $\Delta p \leq 0,25 \text{ m WC}$.
- Class B heater, in accordance with article 16.9 of the French General Directorate for Health.

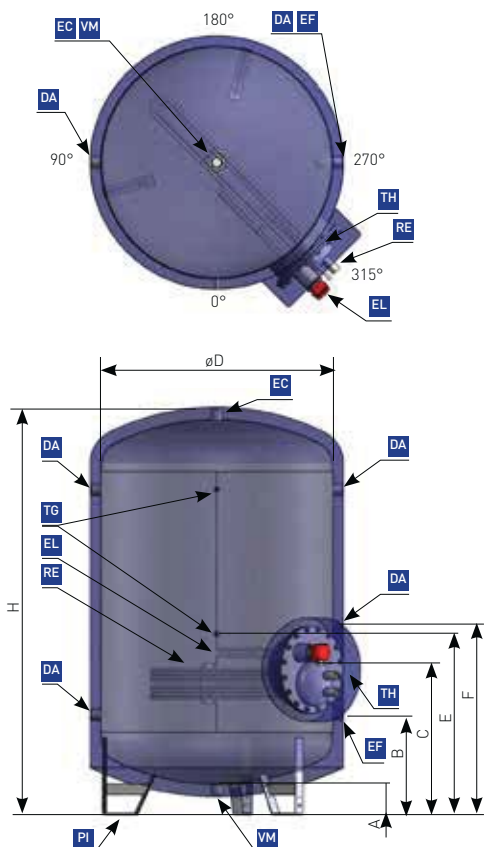
Options

- Accessories kit (thermometer, DN25 safety valve, DN50 drainage valve, air vent valve).
- Upon request : non-standard capacity, dimensions, working pressure and tappings implantation.

Warranty (in accordance with our general conditions of sale)

- Tank and heater = 7 years.
- Other items = 1 year.

DIMENSIONS



Cap. (Litres)	A (mm)	B (mm)	C (mm)	øD (mm)	E (mm)	F (mm)	G (mm)	H (mm)	Weight (kg)
500	90	410	660	650	860	870	1 420	1 760	140
750	90	440	690	800	890	900	1 450	1 820	175
1 000H ⁽¹⁾	90	440	690	800	890	900	1 940	2 330	210
1 000B ⁽¹⁾	90	475	725	950	925	935	1 485	1 900	235
1 500H ⁽¹⁾	90	475	725	950	925	935	2 035	2 450	280
1 500B ⁽¹⁾	90	510	760	1 100	960	970	1 520	1 960	290
2 000H ⁽¹⁾	90	510	760	1 100	960	970	2 070	2 510	345
2 000B ⁽¹⁾	90	560	810	1 300	1 010	1 020	1 570	2 050	400
2 500	90	560	810	1 300	1 010	1 020	1 820	2 300	430
3 000	90	560	810	1 300	1 010	1 020	2 120	2 600	470

⁽¹⁾Note : H = High version ; B = Low version.

- DA Outlet/loop return (50/60 G ext. thread)
- EC Hot water outlet (50/60 G ext. thread)
- EF Cold water inlet (50/60 G ext. thread)
- EL Electric heater
- PI Support feet
- TH Ø 400 mm manhole
- TG Tapping 15/21 for thermometer and thermostat
- RE U-tube heater
- PR Threaded bearing with cover for attaching an immersion heater
- VM Threaded drainage outlet 50/60

AVAILABLE MODELS

Electric version (immersion heater(s)):

Cap. (litres)	Power (Nb x kW)	Reference with 60 mm-M1 jacket	Reference with 50 mm-M0 jacket
		With manhole	With manhole
500	6 (1 x 6)	INE050M1V	INE050M0V
750	9 (1 x 9)	INE075M1V	INE075M0V
1 000H ⁽¹⁾	12 (1 x 12)	INE100HM1V	INE100HM0V
1 000B ⁽¹⁾	12 (1 x 12)	INE100BM1V	INE100BM0V
1 500H ⁽¹⁾	15 (1 x 15)	INE150HM1V	INE150HM0V
1 500B ⁽¹⁾	15 (1 x 15)	INE150BM1V	INE150BM0V
2 000H ⁽¹⁾	20 (1 x 20)	INE200HM1V	INE200HM0V
2 000B ⁽¹⁾	20 (1 x 20)	INE200BM1V	INE200BM0V
2 500	24 (1 x 24)	INE250M1V	INE250M0V
3 000	30 (1 x 30)	INE300M1V	INE300M0V



Heating from 10 to 60°C in 6 hours
Thermostat (tri-phased for power ≤ 20 kW, unipolar beyond that)

Electric version (electric cartridge(s)):

Cap. (litres)	Power (Nb x kW)	Reference with 60 mm-M1 jacket	Reference with 50 mm-M0 jacket
500	4,5 (1 x 4,5)	INB050M1V	INB050M0V
750	6 (1 x 6)	INB075M1V	INB075M0V
1 000H ⁽¹⁾	7,5 (1 x 7,5)	INB100HM1V	INB100HM0V
1 000B ⁽¹⁾	7,5 (1 x 7,5)	INB100BM1V	INB100BM0V
1 500H ⁽¹⁾	15 (6 + 9)	INB150HM1V	INB150HM0V
1 500B ⁽¹⁾	15 (6 + 9)	INB150BM1V	INB150BM0V
2 000H ⁽¹⁾	18 (2 x 9)	INB200HM1V	INB200HM0V
2 000B ⁽¹⁾	18 (2 x 9)	INB200BM1V	INB200BM0V
2 500	27 (3 x 9)	INB250M1V	INB250M0V
3 000	27 (3 x 9)	INB300M1V	INB300M0V



Heating from 10 to 60°C on 6 hours
Unipolar thermostat

Version U-tube heater :

Cap. (litres)	Heater power (kW)	Flow rate (m3/h)	Head loss (mWC) ⁽³⁾	Surface area (m2)	Ref. 60 mm-M1 jacket	Ref. 50 mm-M0 jacket
500	12	0,7	0,1	0,58	INR050M1V	INR050M0V
750	25	1,1	0,15	0,98	INR075M1V	INR075M0V
1 000H ⁽¹⁾	25	1,1	0,15	0,98	INR100HM1V	INR100HM0V
1 000B ⁽¹⁾	25	1,1	0,15	0,98	INR100BM1V	INR100BM0V
1 500H ⁽¹⁾	34	1,5	0,2	1,8	INR150HM1V	INR150HM0V
1 500B ⁽¹⁾	34	1,5	0,2	1,33	INR150BM1V	INR150BM0V
2 000H ⁽¹⁾	58	2,5	0,35	2,5	INR200HM1V	INR200HM0V
2 000B ⁽¹⁾	58	2,5	0,45	2	INR200BM1V	INR200BM0V
2 500	58	2,5	0,45	2	INR250M1V	INR250M0V
3 000	58	2,5	0,45	2	INR300M1V	INR300M0V



Primary heater = 90/70°C
Secondary heater DHW = 10/60°C
Tapping I/O = DN32

Dual version (immersion heater + U-tube heater):

Cap. (litres)	Power (Nb x kW)	Heater power (kW)*	Ref. 60 mm-M1 jacket	Ref. 50 mm-M0 jacket
500	6 (1 x 6)	12	INM050M1V	INM050M0V
750	9 (1 x 9)	25	INM075M1V	INM075M0V
1 000H ⁽¹⁾	12 (1 x 12)	25	INM100HM1V	INM100HM0V
1 000B ⁽¹⁾	12 (1 x 12)	25	INM100BM1V	INM100BM0V
1 500H ⁽¹⁾	15 (1 x 15)	34	INM150HM1V	INM150HM0V
1 500B ⁽¹⁾	15 (1 x 15)	34	INM150BM1V	INM150BM0V
2 000H ⁽¹⁾	20 (1 x 20)	58	INM200HM1V	INM200HM0V
2 000B ⁽¹⁾	20 (1 x 20)	58	INM200BM1V	INM200BM0V
2 500	24 (1 x 24)	58	INM250M1V	INM250M0V
3 000	30 (1 x 30)	58	INM300M1V	INM300M0V



Heating from 10 to 60°C in 6H
Thermostat (tri-phased power ≤ 20 kW)
Heater :
Primary regime=90/70°C - DHW=10/60°C

*Technical characteristics of the U-tube heater (flow rate (m3/h), head loss (mWC) and surface area (m2) presented in the table "U-tube heater version" (previous page).

⁽¹⁾ H = High version ; B = Low version.

“RECUPAC” heater version (energy recovery via a heat pump):

Cap. (litres)	Heater power (kW)	Tapping I/O	Flow rate (m ³ /h)	Head loss (mWC) ⁽²⁾	Surface area (m ²)	Ref. 100 mm-M1 jacket	Ref. 100 mm-M0 jacket
500	18	DN32	3,5	0,6	1,72	INC050M01V	INC050M11V
750	35	DN65	4,5	0,2	4,1	INC075M01V	INC075M11V
1 000H⁽¹⁾	35	DN65	4,5	0,2	4,1	INC100HM01V	INC100HM11V
1 000B⁽¹⁾	35	DN65	4,5	0,2	4,1	INC100BM01V	INC100BM11V
1 500H⁽¹⁾	35	DN65	4,5	0,2	4,1	INC150HM01V	INC150HM11V
1 500B⁽¹⁾	40	DN65	5,1	0,3	4	INC150BM01V	INC150BM11V
2 000H⁽¹⁾	45	DN65	5,8	0,4	4,5	INC200HM01V	INC200HM11V
2 000B⁽¹⁾	45	DN65	5,8	0,4	4,56	INC200BM01V	INC200BM11V
2 500	50	DN65	6,3	0,4	5,1	INC250M01V	INC250M11V
3 000	50	DN65	6,3	0,4	5,1	INC300M01V	INC300M11V

⁽¹⁾ H = High version ; B = Low version -

⁽²⁾ mWC = Meter of water column.



Primary
(glycol water 30%)
= 55/47,5°
Secondary = 10/45°C

OPTIONS

Reference	Description
KA1S	Accessories kit - DN25 safety valve calibrated at 7-bar - Brass dial thermometer 0/120 C deg - DN50 drainage valve - Air vent valve
CCT	Thermal shock box, anti-legionella box

Integrated loop heater (LH kits for DHW cylinders)

- Additional immersion heater located in the top section of the tank (230/400 V tri-phase)
- Double unipolar safety thermostat.

Reference	Immersion heater power (kW)	Minimum diameter of tank (mm)
RBI3	3	550
RBI4	4,5	550
RBI6	6	550
RBI9	9	650
RBI12	12	800



Note : Integrated loop heater is not pre-assembled on tank.