

# Brochure



## Groups of Cooling

Air/ Water

## SUMMARY

pag. 3 Technical Specifications Cooling Unit **1A** **SOON TO BE DISCONTINUED**

Pag. 4 Drawing of cooling unit **1A**

Pag. 5 Technical Specifications **2BR** Cooling Unit

Pag. 6 Drawing **of the 2BR cooling unit**

Pag. 7 Technical Specifications Cooling Unit **2BHP- 4B**

pag. 8 Drawing of the cooling unit **2BHP** **pag. 9**

**Drawing of the cooling unit 4B** **pag. 10**

**Drawing of the** cooling unit **4B**

pag. 11 Technical specifications Cooling unit **2BHPLN3**

pag. 12 Drawing of cooling unit **2BHPLN3**

Pag. 13 Technical Specifications **2H** Cooling Unit

Pag. 14 Drawing of the **2H cooling unit**

Pag. 15 Technical features of the **2L cooling unit**

Pag. 16 Drawing of **2L cooling unit**

Pag. 17 Drawing of **2L cooling unit + transformer**

Pag. 18 Technical characteristics Cooling unit **5**

Pag. 19 Cooling unit drawing **5**

pag. 20 Technical characteristics Cooling unit **9**

pag. 21 Cooling unit drawing **9**

pag. 22 Technical characteristics Cooling unit **21**

pag. 23 Cooling unit drawing **21**

Pag. 24 Drawing **FA3** - WATER MIST FEEDER

Pag. 25 Technical Specifications **FA3** - WATER MIST FEEDER

pag. 26 Technical features Cooling unit **MINI V**

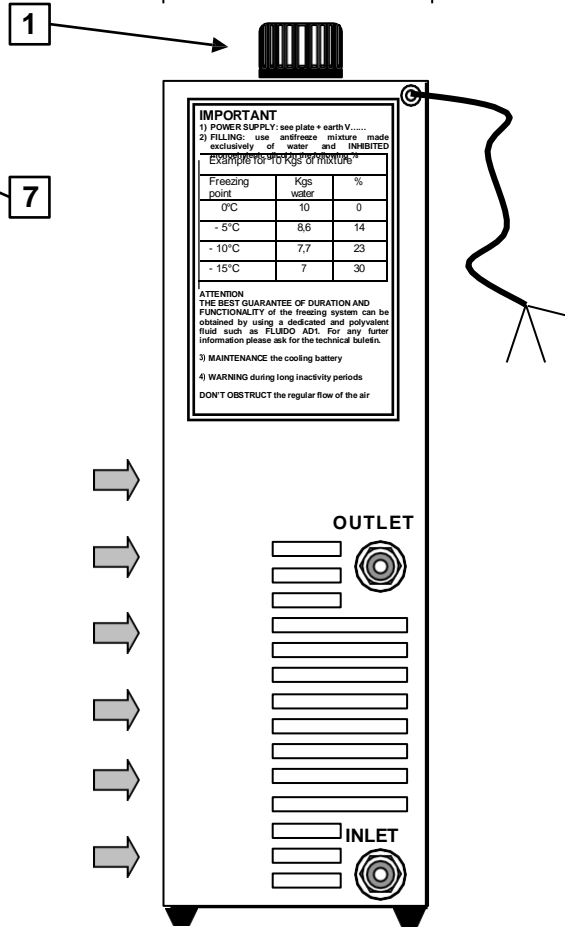
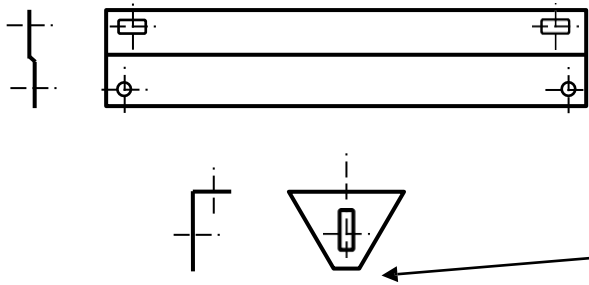
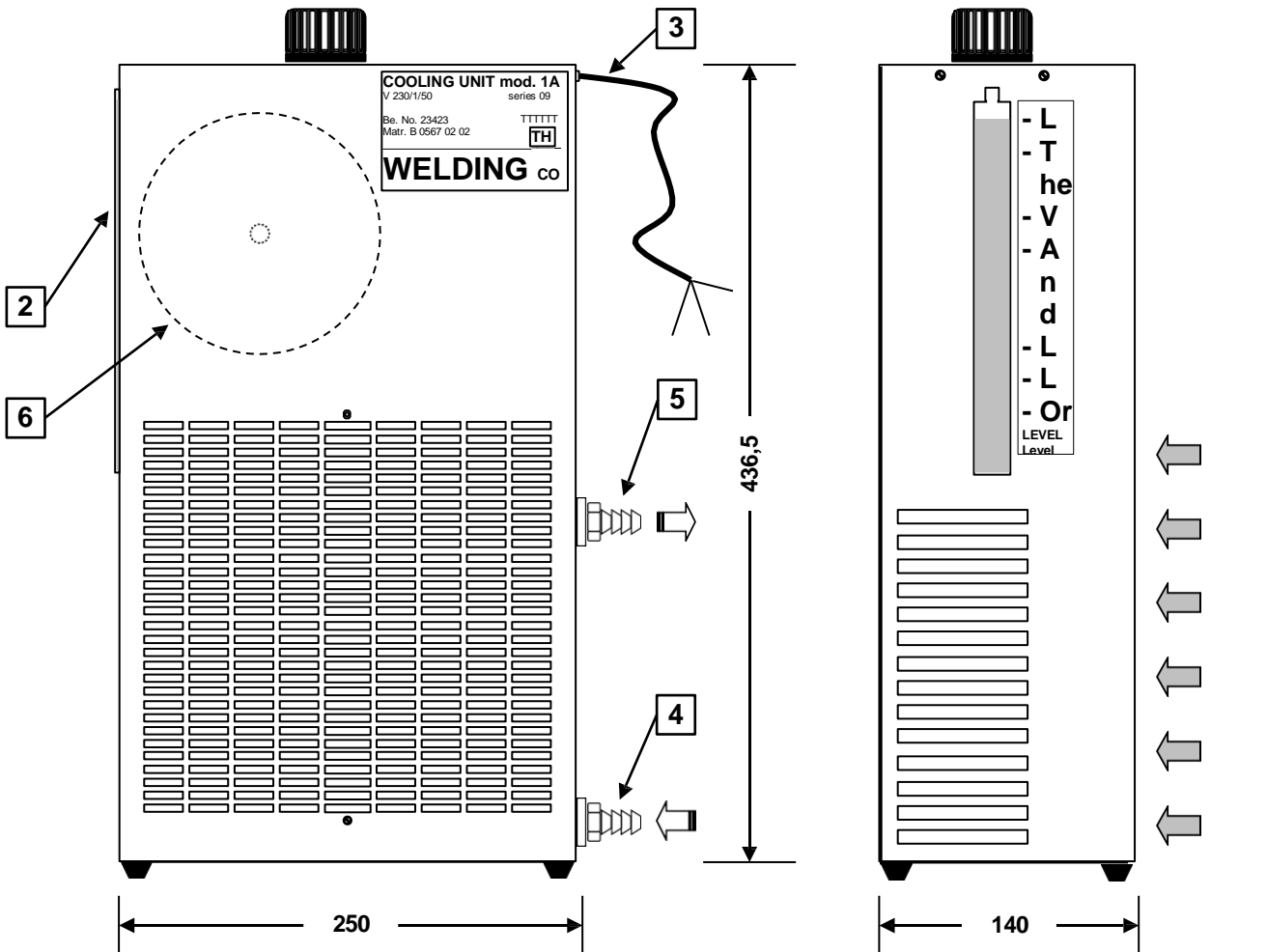
Pag. 27 Drawing of the **MINI V cooling unit**

Pag. 28 Price List

**UNITÀ RAFFREDDAMENTO Cooling Unit****Mod. 1A****SPECIFICATIONS**

NOMINAL CAPACITY	1,200 W
MAX WATER TEMPERATURE	60° C
WATER FLOW min. /Max	0,25 / 2,7 Lt/min.
HEAD max. / min.	45/0 mt. (4.5/0 bar)
AIR FLOW (useful)	270 mc/h
INSTALLED POWER (pump)	55 W
INSTALLED POWER (fan)	37 W
WATER IN/OUT CONNECTIONS	1/4" F gas
WITH HEXIGATOR	7 mm or on request
TANK CAPACITY	5 Lt c.a
CU-AL COOLING COIL	0.79 sqm (tested 35 bar)
POMP MOD. 1110RAILM3C	piston (vibration) bronze body - piston in stainless
FAN	aluminum 154 mm 31°
FEEDING	V 115-230/1/50-60 (V 400 on request)
COOLING FLUID	<b>WATER:</b> well, dejonised, distilled - inhibited water/glycol mixture (max. 30%) recommended fluid ns <b>FLUID AD11</b>
DIMENSIONS Length x Width x Height	140 X250 X 436 + 10 mm removable feet
WEIGHT	Kg. 9 C.a
BODY COLOURS	WHITE - BLACK - GREY
LETTERING COLORS	WHITE - BLACK
OPTIONAL ACCESSORIES	Taps, Quick couplings - Suspension or floor fixing brackets - Pump pulsation damper - Autotransformer V400/230 for V400 power supply

**SPECIAL EXECUTIONS****NONE****PARTICULARITY****Low cost - small size - excellent performance and volume ratio**

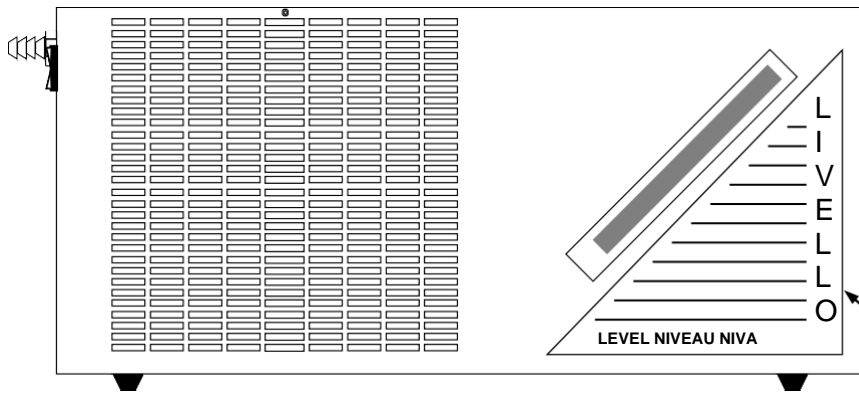
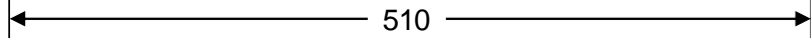
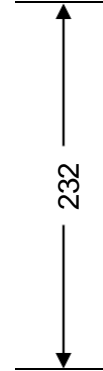
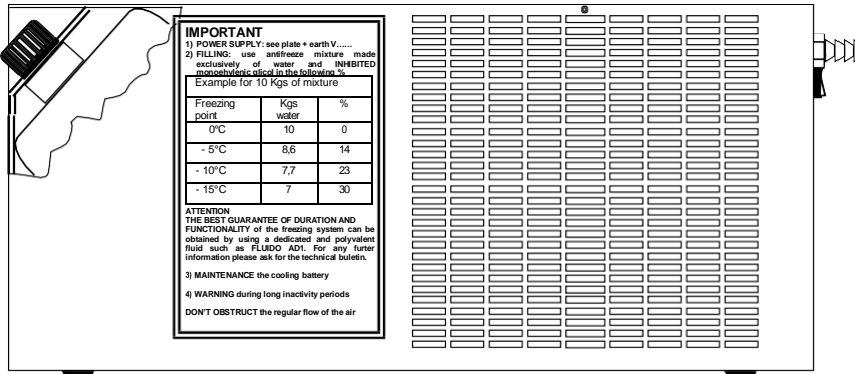


1	<b>FILLER CAP</b> <i>filling plug</i>
2	<b>TANK LEVEL</b> <i>tank level</i>
3	<b>POWER CABLE</b> <i>AC power cable</i>
4	<b>WATER DELIVERY</b> <i>water outlet - 1/4" gas</i>
5	<b>WATER RETURN</b> <i>water inlet - 1/4" gas</i>
6	<b>TRANSFORMER V 400/230 - opt.</b>  Optional step-down transf. V 400/230
7	<b>STAFFE FISSAGGIO – <i>Mounting brackets</i></b>
<b>AIR FLOW – <i>Air flow</i></b>	

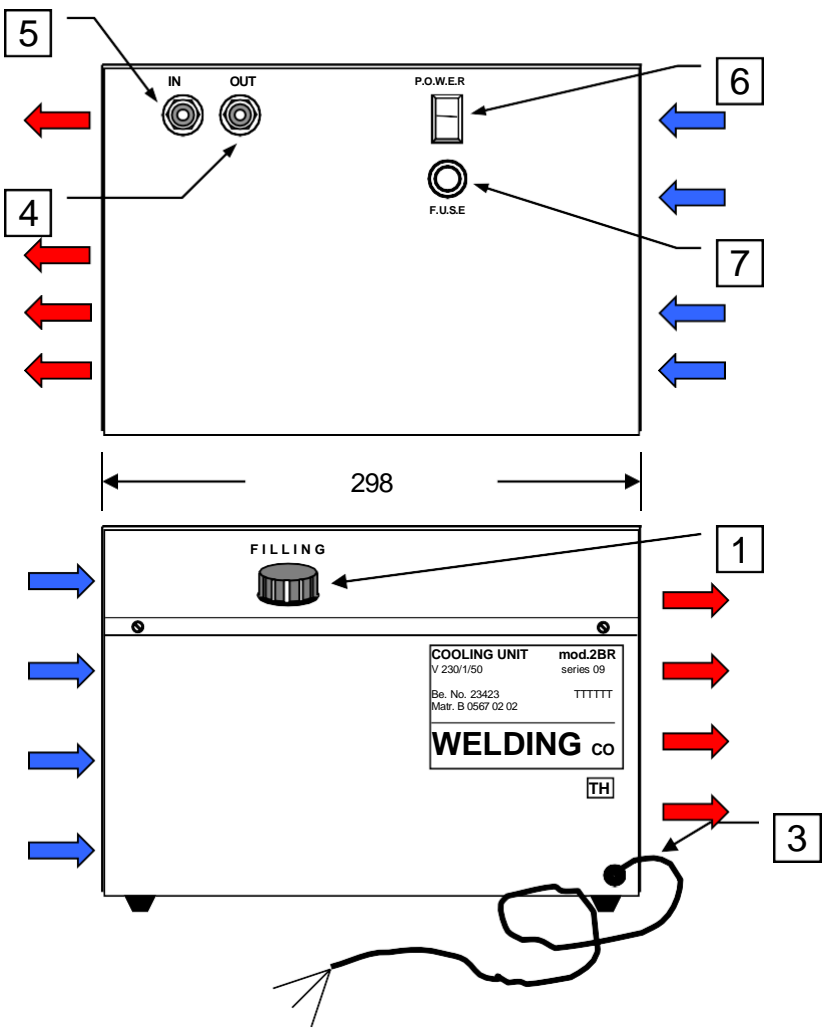
**UNITÀ RAFFREDDAMENTO Cooling Unit****Mod. 2BR****SPECIFICATIONS**

NOMINAL CAPACITY	2,000 W
MAX WATER TEMPERATURE	60° C
WATER FLOW min. /Max	0,3 / 9 Lt/min. - type SAL40
HEAD max. / min.	38/0 mt. (3.8/0 bar)
AIR FLOW (useful)	900 mc/h
INSTALLED POWER (pump)	300 W - type SAL40
WATER IN/OUT CONNECTIONS	1/4" F gas
WITH HEXIGATOR	7 mm or on request
TANK CAPACITY	5 Lt c.a
CU-AL COOLING COIL	1,8 sqm (tested 35 bar)
POMP MOD. SALT 40 FAN	Peripheral centrifuge - bronze impeller body - stainless steel shaft - thermo amperometric protection Internal
COOLING FAN	aluminum 172 mm 27° axial to pump motor
FEEDING	V 115-230-400/1/50-60 (others on request)
COOLING FLUID	<b>WATER:</b> well, dejonised, distilled - inhibited water/glycol mixture (max. 30%) recommended fluid ns <b>FLUID AD11</b>
DIMENSIONS Length x Width x Height	510 X 298 X 232 + 10 mm removable feet
WEIGHT	Kg. 13,5 C.a
BODY COLOURS	WHITE - BLACK - GREY - RED
LETTERING COLORS	WHITE - BLACK
OPTIONAL ACCESSORIES	Faucets - Quick couplings - Vibration damper

**SPECIAL EXECUTIONS****NONE****PARTICULARITY**



2



AIRFLOW Air flow	
1	FILLER CAP filling plug
2	TANK LEVEL tank level
3	POWER CABLE AC power cable  Optional: (pressure or flow switch cable, 5 or 6 wires or nr. 2 independent cables)
4	WATER DELIVERY - 1/4" gas water outlet - 1/4" gas
5	WATER RETURN - 1/4" gas water inlet - 1/4" gas
6	SWITCH - Optional On/off switch - Optional
7	FUSE - Optional Fuse - Optional

**UNITÀ RAFFREDDAMENTO Cooling Unit****Mod. 2BHP - 4B****SPECIFICATIONS**

<b>NOMINAL CAPACITY</b>	Mod. 2BHP 4,100 W/Mod. 4B 4,250 W
<b>MAX WATER TEMPERATURE</b>	60° C
<b>WATER FLOW min. /Max</b>	0,25 / 9 Lt/min. - type SAL40
<b>HEAD max. / min.</b>	38/0 mt. (3.8/0 bar)
<b>AIR FLOW (useful) 2BHP</b>	990 mc/h
<b>AIR FLOW (useful) 4B</b>	1,080 mc/h
<b>INSTALLED POWER (pump)</b>	300 W - type SAL40
<b>WATER IN/OUT CONNECTIONS</b>	1/4" gas F. on request 3/8" gas F.
<b>WITH HEXIGATOR</b>	7 mm or on request
<b>TANK CAPACITY</b>	5 Lt c.a
<b>CU-AL COOLING COIL</b>	3.24 sqm (tested 35 bar)
<b>POMP MOD. SALT 40 FAN</b>	Peripheral centrifuge - bronze impeller body- Stainless steel shaft - internal thermo- amperometric protection
<b>COOLING FAN</b>	aluminum 200 mm 27° axial to pump motor
<b>FEEDING</b>	V 115-230-400/1/50-60 (others on request)
<b>COOLING FLUID</b>	<b>WATER:</b> well, dejonised, distilled - inhibited water/glycol mixture (max. 30%) recommended fluid ns <b>FLUID AD11</b>
<b>DIMENSIONS 2BHP Length x Width x Height</b>	510 X 342 X 232 + 10 mm removable feet
<b>SIZE 4B Length x width x height</b>	511 X 215 X 460 + 10 mm removable feet
<b>WEIGHT</b>	Kg. 13 C.a
<b>BODY COLOURS</b>	BLACK - GREY
<b>LETTERING COLORS</b>	WHITE - BLACK
<b>OPTIONAL ACCESSORIES</b>	Pressure switch - Flow switch - Taps - Quick couplings - Illuminated switch - Fuse - Alarm thermostat - Thermal anti-shock system for very cold areas - Pilot light

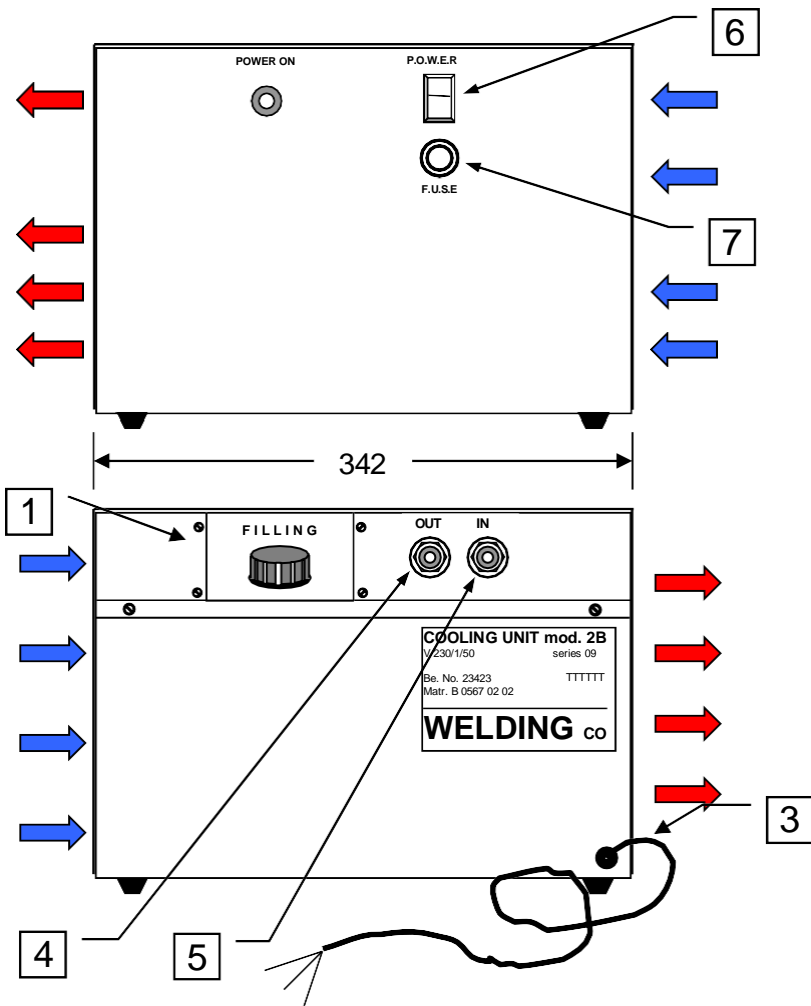
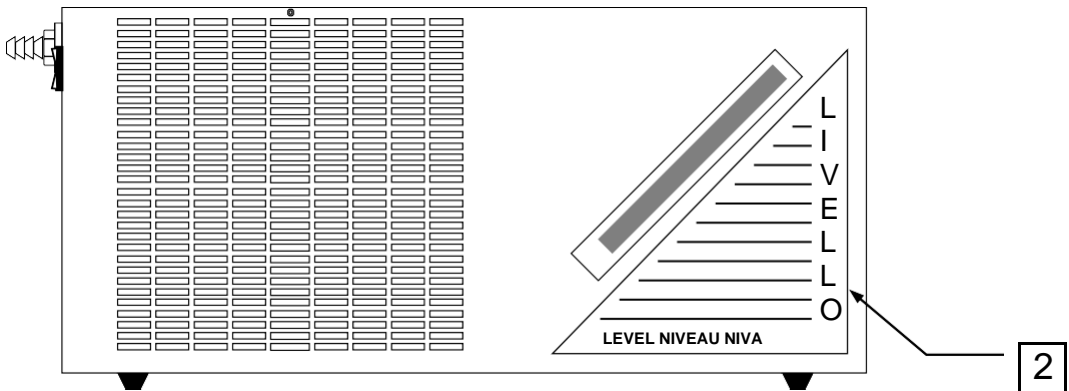
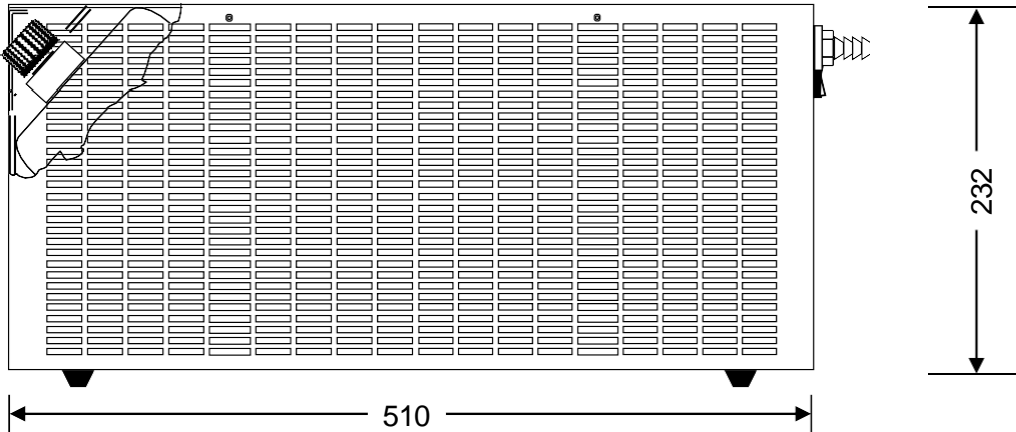
**SPECIAL EXECUTIONS**



**MOD. 2BHP/VT** Version of the 2BHP mod. with solenoid valve and thermostat for controlling the minimum fluid temperature cooling. Specifically designed to prevent thermal shock in extremely cold environments  
**LARGE COOLING CAPACITY - NO THERMAL SHOCKS IN THE UTILITIES**

**MOD. 2BHPI/FLFILM** Special version of the 2BHP with regenerable sand air filter, neodymium magnetic drive AISI gear pump - by-pass pressure regulation and motor protection.  
**LARGE COOLING CAPACITY - NO GLAND and related problems - TOTAL RELIABILITY IN ALL OPERATING CONDITIONS, EVEN IN DUSTY ENVIRONMENTS.**

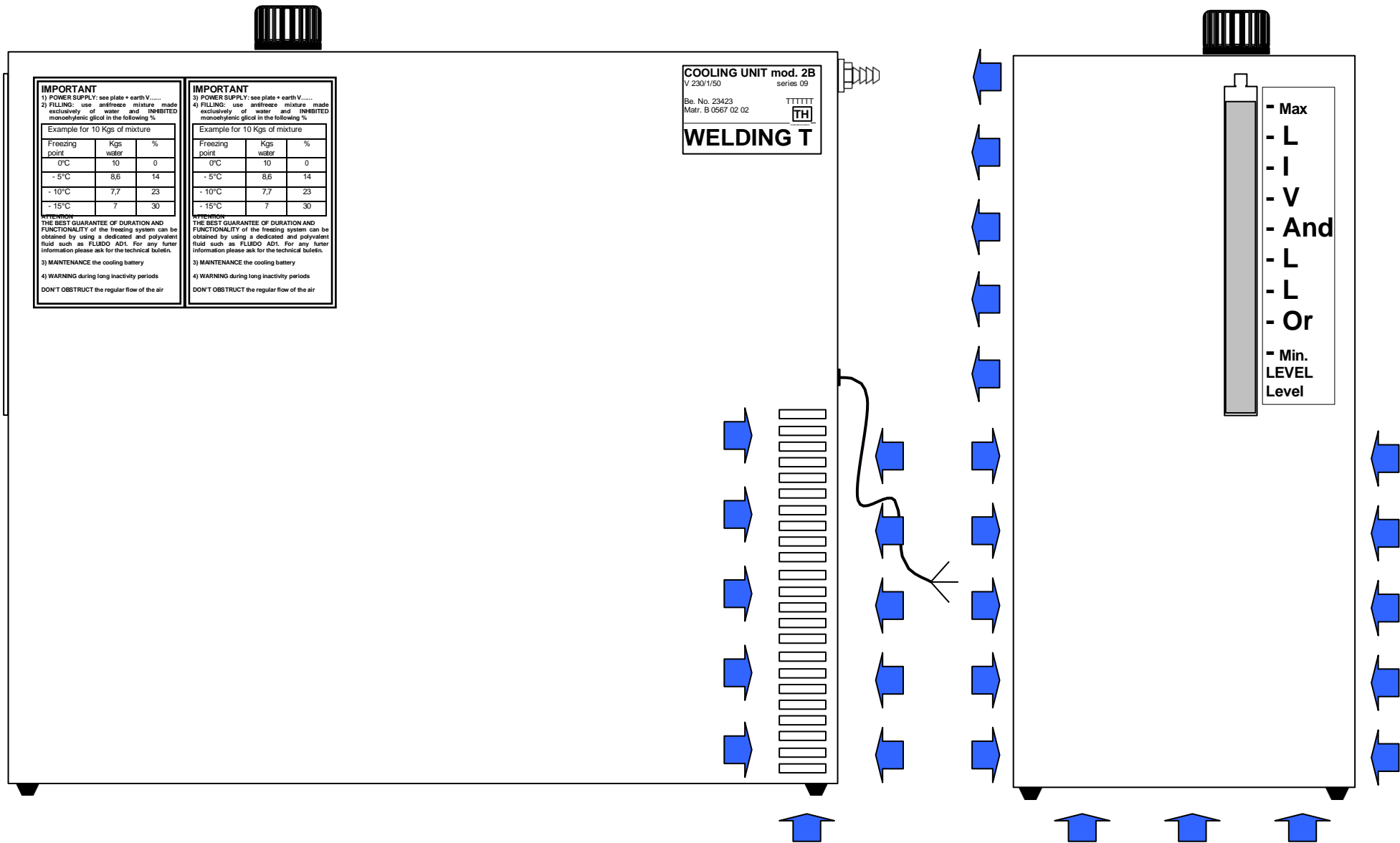
**PARTICULARITY**

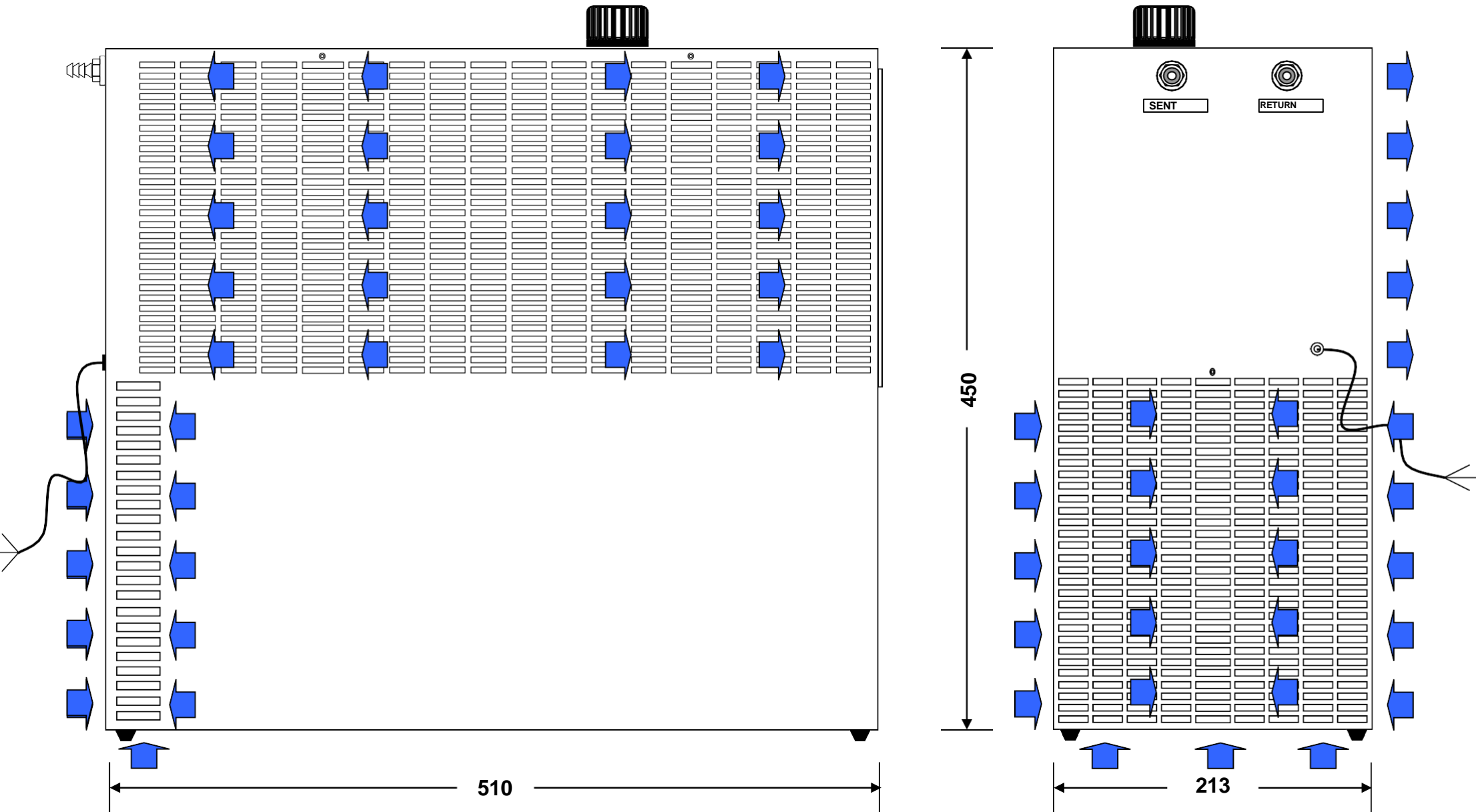
**Large cooling capacity with low dimendions**



 <b>AIRFLOW</b>  <b>Air flow</b>	
1	<b>FILLER CAP</b> <i>filling plug</i>
2	<b>TANK LEVEL</b> <i>tank level</i>
3	<b>POWER CABLE</b> <i>AC power cable</i>  Optional: (pressure or flow switch cable, 5 or 6 wires or nr. 2 independent cables)
4	<b>WATER DELIVERY - 1/4" gas</b> <i>water outlet - 1/4" gas</i>
5	<b>WATER RETURN - 1/4" gas</b> <i>water inlet - 1/4" gas</i>
6	<b>SWITCH - Optional</b> <i>On/off switch - Optional</i>
7	<b>FUSE - Optional</b> <i>Fuse - Optional</i>







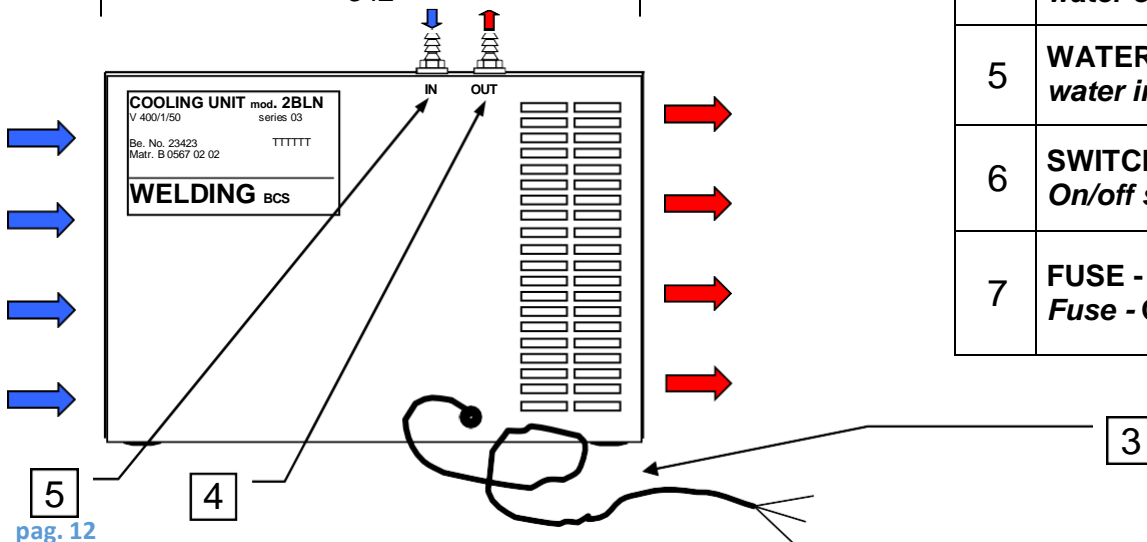
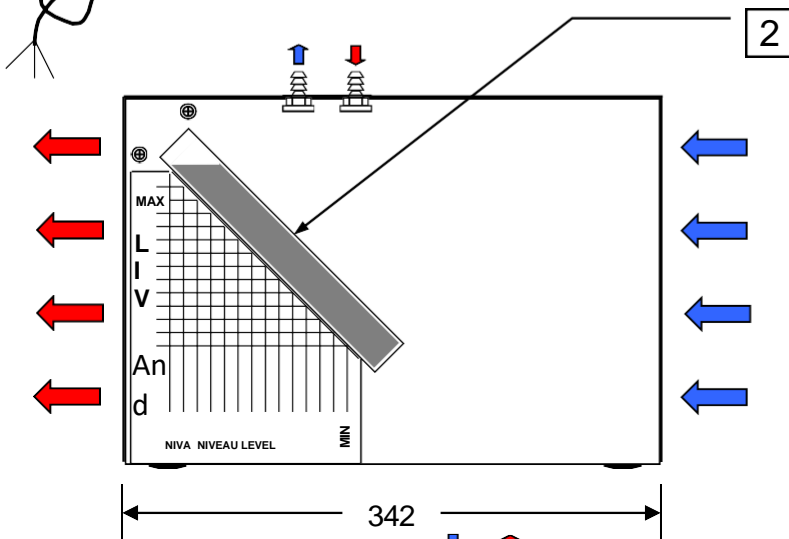
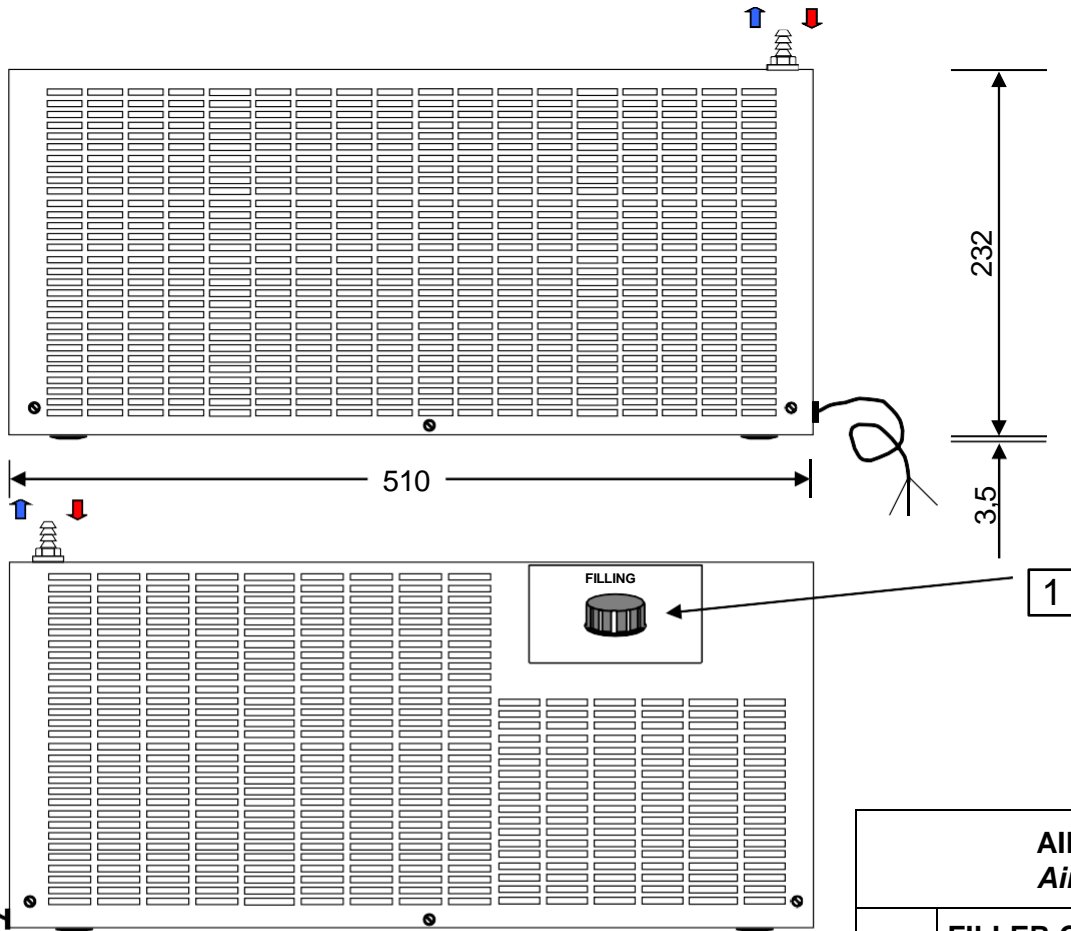
Note: the two rows of vertical flaps have only a "safety" function if the central suction grille (paper, rags, etc.) is obstructed. They can be covered by the edge of the trolley base, which can be up to 235 mm high. (beyond starts the battery grid)

**UNITÀ RAFFREDDAMENTO Cooling Unit****Mod. 2BHPLN3****SPECIFICATIONS**

NOMINAL CAPACITY low speed	3,800 W
High speed NOMINAL CAPACITY	5,200 W
MAX WATER TEMPERATURE	60° C
WATER FLOW min. /Max	0,25 / 9 Lt/min.
HEAD max. / min.	38/0 mt. (3.8/0 bar)
AIR FLOW (useful) low speed	900 mc/h
AIR FLOW (useful) high speed	1,200 mc/h
High speed NOISE	Db(A) 46 at 1.5 m in free field
Low speed	Db(A) 64 at 1.5 m in free field
INSTALLED POWER (pump + fans)	300 + 2 x 44 W Tot. 388W
INSTALLED POWER (fan)	37 W
IN/OUTWATER CONNECTIONS	1/4" F gas
WITH HEXIGATOR	9 mm
TANK CAPACITY	5 Lt c.a
CU-AL COOLING COIL	3.24 sqm (tested 35 bar)
PUMP MOD. SAL40 MEC	Peripheral centrifuge - bronze impeller body - Stainless steel shaft - internal thermo/amperometric protection
COOLING FANS	Die-cast aluminium, 220mm axial, 200mm reinforced polycarbonate impeller, on sphere.
FEEDING	V 230-400/1/50-60 (others on request)
COOLING FLUID	<b>WATER:</b> well, dejonised, distilled - inhibited water/glycol mixture (max. 30%) recommended fluid ns <b>FLUID AD11</b>
DIMENSIONS Length x Width x Height	510 X 342 X 232 + 10 mm removable feet
WEIGHT	Kg. 20 C.a
BODY COLOURS	BLACK
LETTERING COLORS	WHITE
OPTIONAL ACCESSORIES	Pressure switch - Flow switch - Taps - Quick couplings - Illuminated switch

Specifically designed for spot welding in the **AUTOMOTIVE** sector**SPECIAL EXECUTIONS****NONE****PARTICULARITY**

**SMALL DIMENSIONS with EXCEPTIONAL COOLING CAPACITY - REMARKABLE RELIABILITY OF THE PUMPING UNIT, EVEN WITH WATER THAT IS NOT PERFECTLY CLEAN - VERY SIMPLE MAINTENANCE - POSSIBILITY TO SELECT, by varying the fan revolutions, TWO COOLING CAPACITIES AND RELATIVE NOISE LEVELS**



AIRFLOW <i>Air flow</i>	
1	<b>FILLER CAP</b> <i>filling plug</i>
2	<b>TANK LEVEL</b> <i>tank level</i>
3	<b>POWER CABLE</b> <i>AC power cable</i>  <b>Optional:</b> <i>(pressure or flow switch cable, 5 or 6 wires or nr. 2 independent cables)</i>
4	<b>WATER DELIVERY - 1/4" gas</b> <i>water outlet - 1/4" gas</i>
5	<b>WATER RETURN - 1/4" gas</b> <i>water inlet - 1/4" gas</i>
6	<b>SWITCH - Optional</b> <i>On/off switch - Optional</i>
7	<b>FUSE - Optional</b> <i>Fuse - Optional</i>

**UNITÀ RAFFREDDAMENTO Cooling Unit****Mod. 2H****SPECIFICATIONS**

NOMINAL CAPACITY	2,200 W
MAX WATER TEMPERATURE	60° C
WATER FLOW min. /Max	0,25 / 9 Lt/min. - type SAL40
HEAD max. / min.	38/0 mt. (3.8/0 bar)
AIR FLOW (useful)	900 mc/h
INSTALLED POWER (pump)	300 W - type SAL40
WATER IN/OUT CONNECTIONS	1/4" F gas or 3/8" F gas on request
WITH HEXIGATOR	7 mm or on request
TANK CAPACITY	5 Lt c.a
CU-AL COOLING COIL	1.8 sqm (tested 35 bar)
POMP MOD. SALT 40 FAN	Peripheral centrifuge - bronze impeller body- Stainless steel shaft - internal thermo/amperometric protection
COOLING FAN	aluminum 172 mm 27° axial to pump motor
FEEDING	V 115-230-400/1/50-60 (others on request)
COOLING FLUID	<b>WATER:</b> well, dejonised, distilled - inhibited water/glycol mixture (max. 30%) recommended fluid ns <b>FLUID AD11</b>
DIMENSIONS Length x Width x Height	270 X 230 X 520 + 10 mm removable feet
WEIGHT	Kg. 15 C.a
BODY COLOURS	WHITE - BLACK - GREY - RED
LETTERING COLORS	WHITE - BLACK
OPTIONAL ACCESSORIES	Pressure switch - Flow switch - Taps - Quick couplings - Illuminated switch

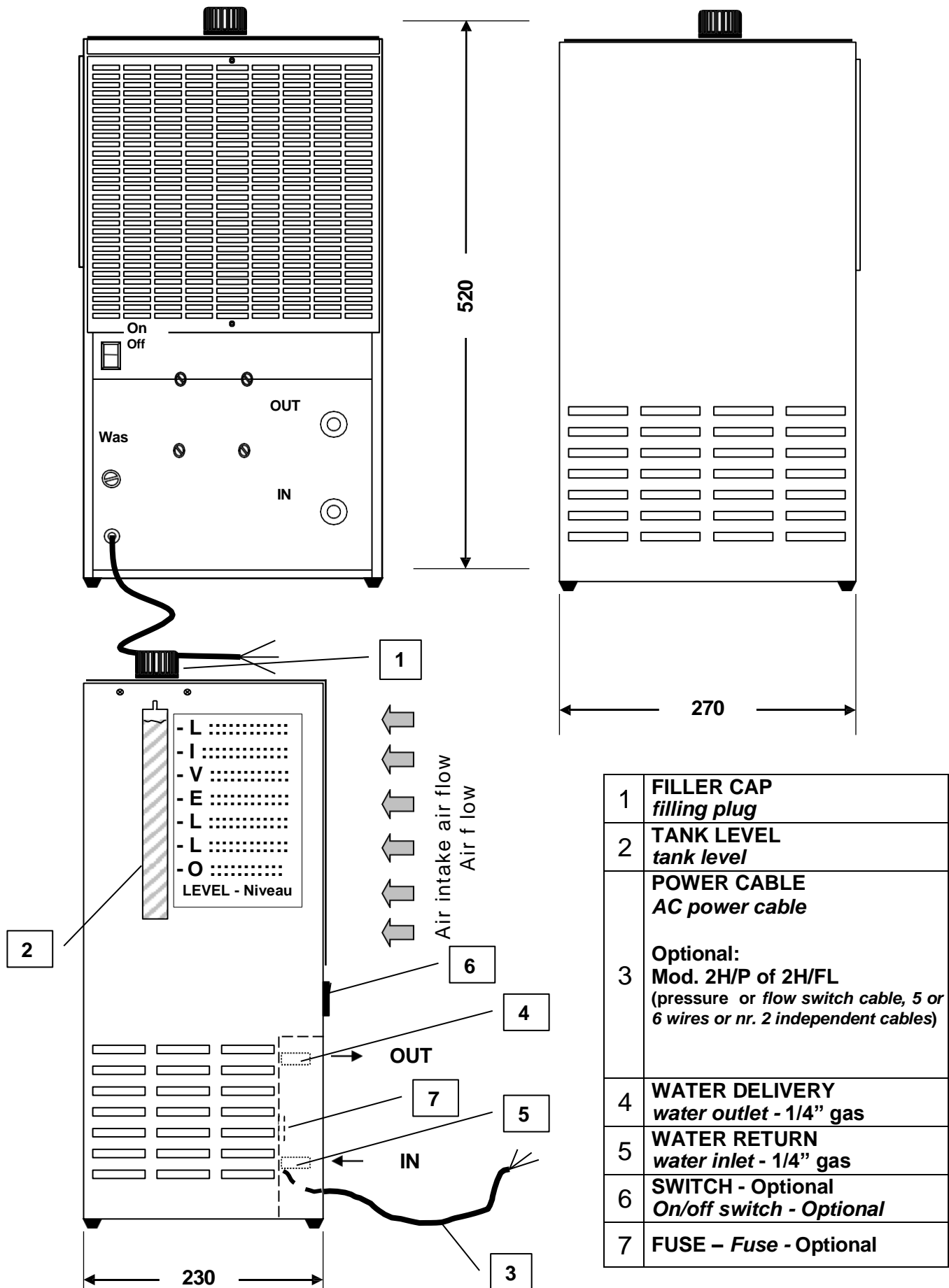
Specifically designed for the cooling of high-power torches and for the cooling of electrospindles

**SPECIAL EXECUTIONS**

*Mod. 2HH: threaded bushings for wall mounting – predisposition for mounting the flow switch, accessible for calibration. ILME plug electrical connection*

**PARTICULARITY**

**EXCEPTIONAL COOLING CAPACITY - REMARKABLE RELIABILITY OF THE PUMPING UNIT EVEN WITH POLLUTED WATER - VERY EASY MAINTENANCE**



1	<b>FILLER CAP</b> <i>filling plug</i>
2	<b>TANK LEVEL</b> <i>tank level</i>
3	<b>POWER CABLE</b> <i>AC power cable</i>  Optional: Mod. 2H/P of 2H/FL (pressure or flow switch cable, 5 or 6 wires or nr. 2 independent cables)
4	<b>WATER DELIVERY</b> <i>water outlet - 1/4" gas</i>
5	<b>WATER RETURN</b> <i>water inlet - 1/4" gas</i>
6	<b>SWITCH - Optional</b> <i>On/off switch - Optional</i>
7	<b>FUSE - Fuse - Optional</b>

**UNITÀ RAFFREDDAMENTO Cooling Unit****Mod. 2L 2LP****SPECIFICATIONS**

NOMINAL CAPACITY	2,200 W
MAX WATER TEMPERATURE	60° C
WATER FLOW min. /Max	0,25 / 9 Lt/min. - type SAL40
HEAD max. / min.	38/0 mt. (3.8/0 bar)
AIR FLOW (useful)	900 mc/h
INSTALLED POWER (pump)	300 W - type SAL40
WATER IN/OUT CONNECTIONS	1/4" F gas
WITH HEXIGATOR	7 mm or on request
TANK CAPACITY	5 Lt c.a
CU-AL COOLING COIL	1.8 sqm (tested 35 bar)
POMP MOD. SALT 40 FAN	Peripheral centrifuge - bronze impeller body- Stainless steel shaft - internal thermo- amperometric protection
COOLING FAN	aluminum 172 mm 27° axial to pump motor
FEEDING	V 115-230-400/1/50-60 (others on request)
COOLING FLUID	<b>WATER:</b> well, dejonised, distilled - inhibited water/glycol mixture (max. 30%) recommended fluid ns <b>FLUID AD11</b>
DIMENSIONS Length x Width x Height -in vert.	300 X 260 X 390 + 10 mm removable feet
DIMENSIONS Length x width x height - in horizontal	390 X 260 X 300 + 10 mm removable feet
WEIGHT	Kg. 13 C.a
BODY COLOURS	BLACK - RED
LETTERING COLORS	WHITE - BLACK
OPTIONAL ACCESSORIES	Pressure switch - Taps - Quick couplings - Illuminated switch

**SPECIAL EXECUTIONS**

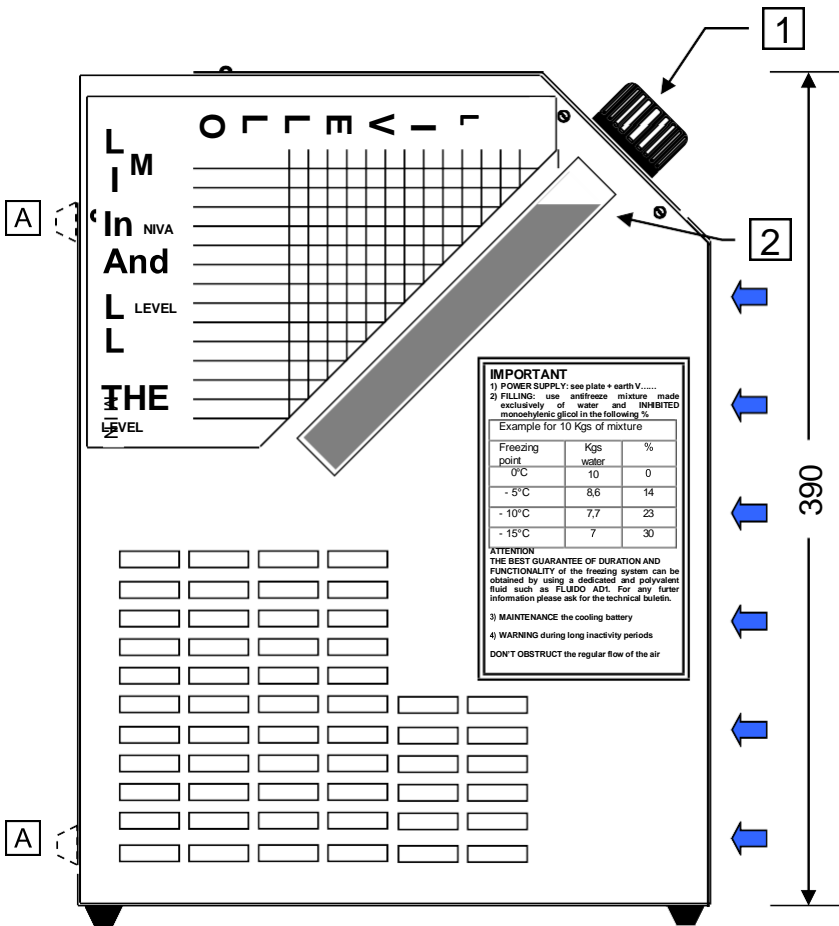
**MOD. 2LP** Version with oversized pipes, fittings and connections for cooling spot welders, bars, pliers.

**MOD. 2LV** Version with vertical connections. Suitable for horizontal installation or to avoid bends in the pipes connecting to systems located above the unit.

**MOD. 2L HP - 2LP HP** "High power" version with oversized fan – Capacity W 2.860

**PARTICULARITY**

**To transform from Vertical to Horizontal, it is necessary to move the 4 feet using the special threaded bushings on the front panel**



1	<b>FILLER CAP</b> <i>filling plug</i>
2	<b>TANK LEVEL</b> <i>tank level</i>
3	<b>POWER CABLE</b> <i>AC power cable</i>  Optional:  (pressure or flow switch cable, 5 or 6 wires or nr. 2 independent cables)
4	<b>WATER DELIVERY</b> <i>water outlet - 1/4" gas</i>
5	<b>WATER RETURN</b> <i>water inlet - 1/4" gas</i>
6	<b>SWITCH - Optional</b> <i>On/off switch - Optional</i>
7	<b>FUSE - Optional</b> <i>Fuse - Optional</i>
A	<b>HORIZONTAL FEET</b> <i>Horizontal mounting position feet</i>
	<b>AIR FLOW – Air flow</b>

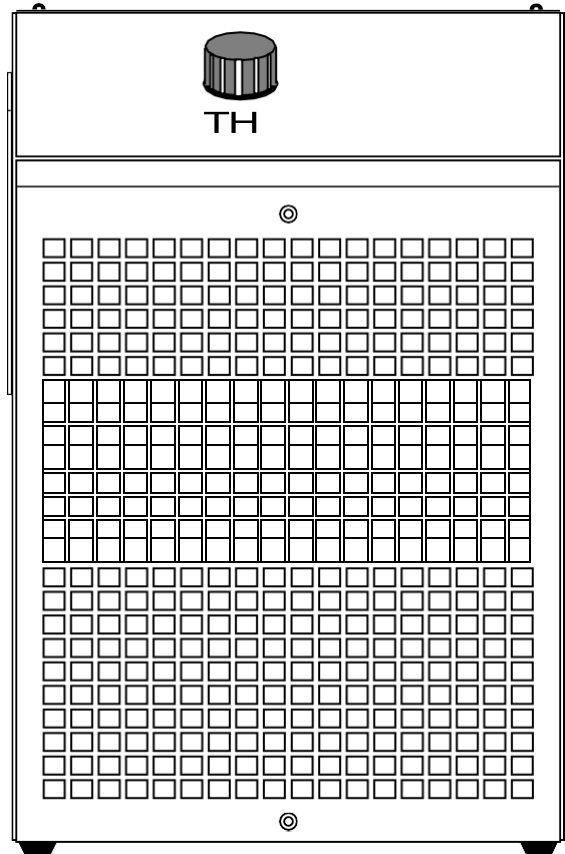
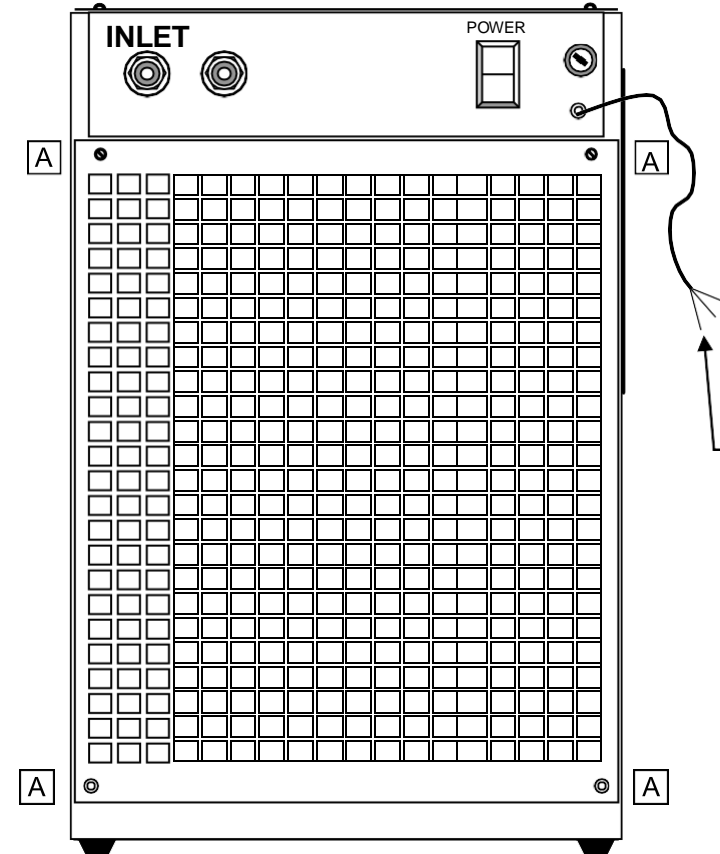
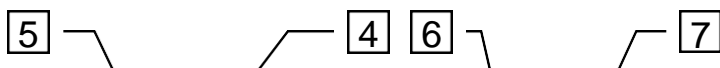
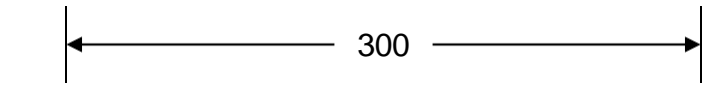
**IMPORTANT**

1) POWER SUPPLY: see plate + earth V.....  
 2) FILLING: use antifreeze mixture made exclusively of water and INHIBITED monoethylene glycol in the following %  
 Example for 10 Kgs of mixture

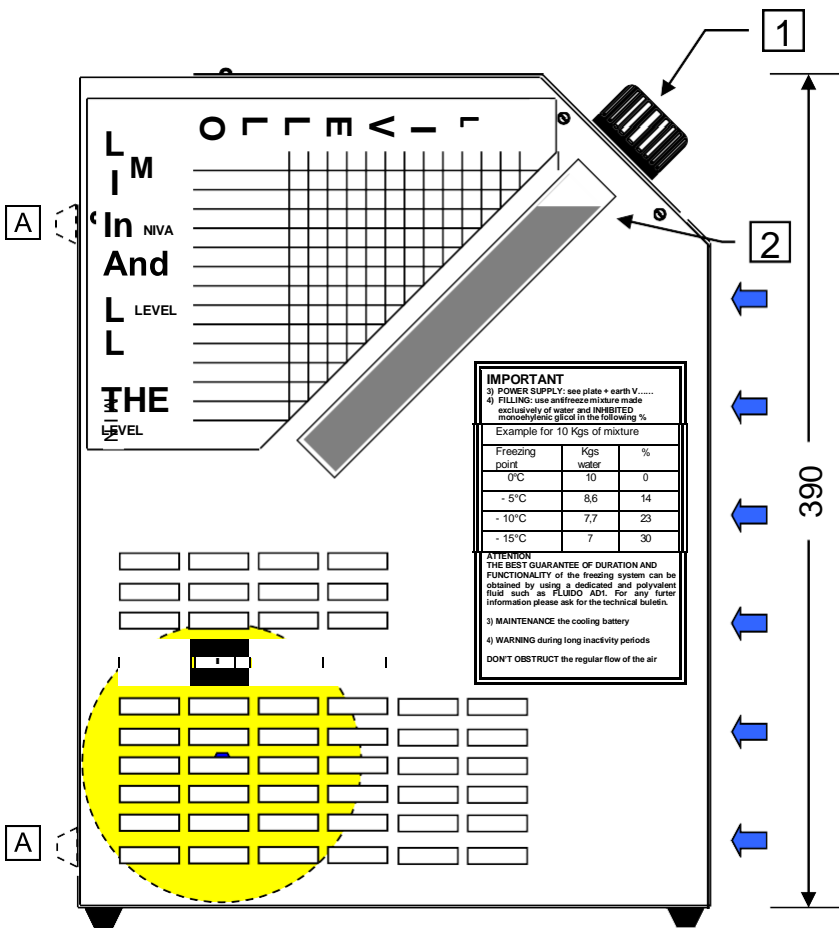
Freezing point	Kgs water	%
0°C	10	0
- 5°C	8,6	14
- 10°C	7,7	23
- 15°C	7	30

**ATTENTION:**  
 THE BEST GUARANTEE OF DURATION AND FUNCTIONALITY of the freezing system can be obtained by using a dedicated and polyvalent fluid such as FLUDO AD1. For any further information please ask for the technical bulletin.

3) MAINTENANCE the cooling battery  
 4) WARNING during long inactivity periods  
 DON'T OBSTRUCT the regular flow of the air







**IMPORTANT**

3) POWER SUPPLY: see plate « earth V..... »  
 4) FILLING: use anti-freeze mixture made exclusively of water and INHERITED monoethylene glycol in the following %

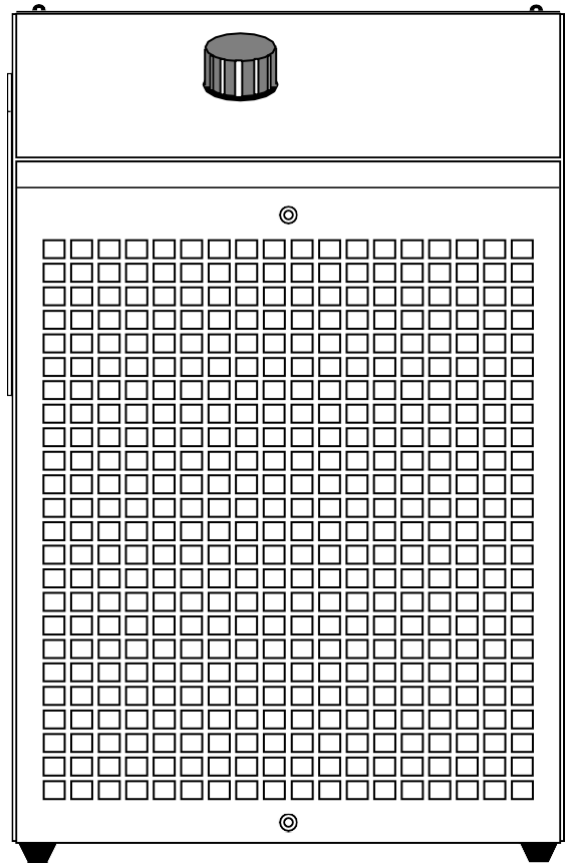
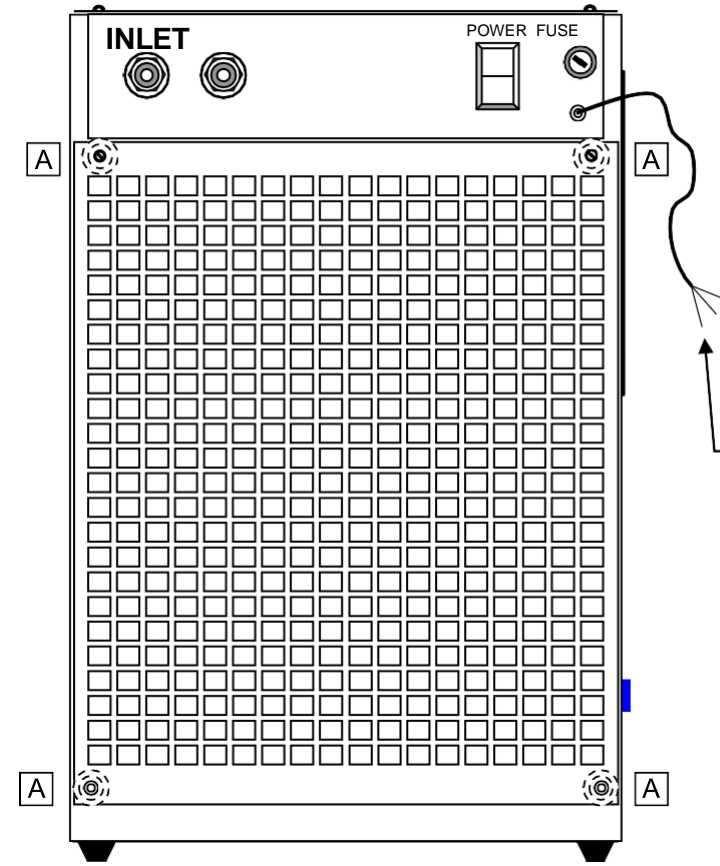
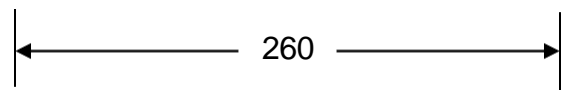
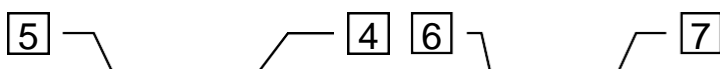
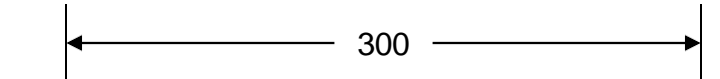
Example for 10 Kgs of mixture

Freezing point	Kgs water	%
0°C	10	0
- 5°C	8,6	14
- 10°C	7,7	23
- 15°C	7	30

**ATTENTION**  
 THE BEST GUARANTEE OF DURATION AND FUNCTIONALITY of the freezing system can be obtained by using a dedicated and polyvalent fluid such as FLUIDO ADI. For any further information please ask for the technical bulletin.

3) MAINTENANCE the cooling battery  
 4) WARNING during long inactivity periods  
 DON'T OBSTRUCT the regular flow of the air

1	<b>FILLER CAP</b> <i>filling plug</i>
2	<b>TANK LEVEL</b> <i>tank level</i>
3	<b>POWER CABLE</b> <i>AC power cable</i>
3	<b>Optional:</b> <b>Mod. 2L/P of 2L/FL</b> <i>(pressure or flow switch cable, 5 or 6 wires or nr. 2 independent cables)</i>
4	<b>WATER DELIVERY</b> <i>water outlet - 1/4" gas</i>
5	<b>WATER RETURN</b> <i>water inlet - 1/4" gas</i>
6	<b>SWITCH - Optional</b> <i>On/off switch - Optional</i>
7	<b>FUSE - Optional</b> <i>Fuse - Optional</i>
A	<b>HORIZONTAL FEET</b> <i>Horizontal mounting position feet</i>
	<b>AIR FLOW – Air flow</b>
T	<b>TRANSFORMER</b> <i>Step-Down transformer</i>



# UNITÀ RAFFREDDAMENTO Cooling Unit

Manner

. 5

## SPECIFICATIONS

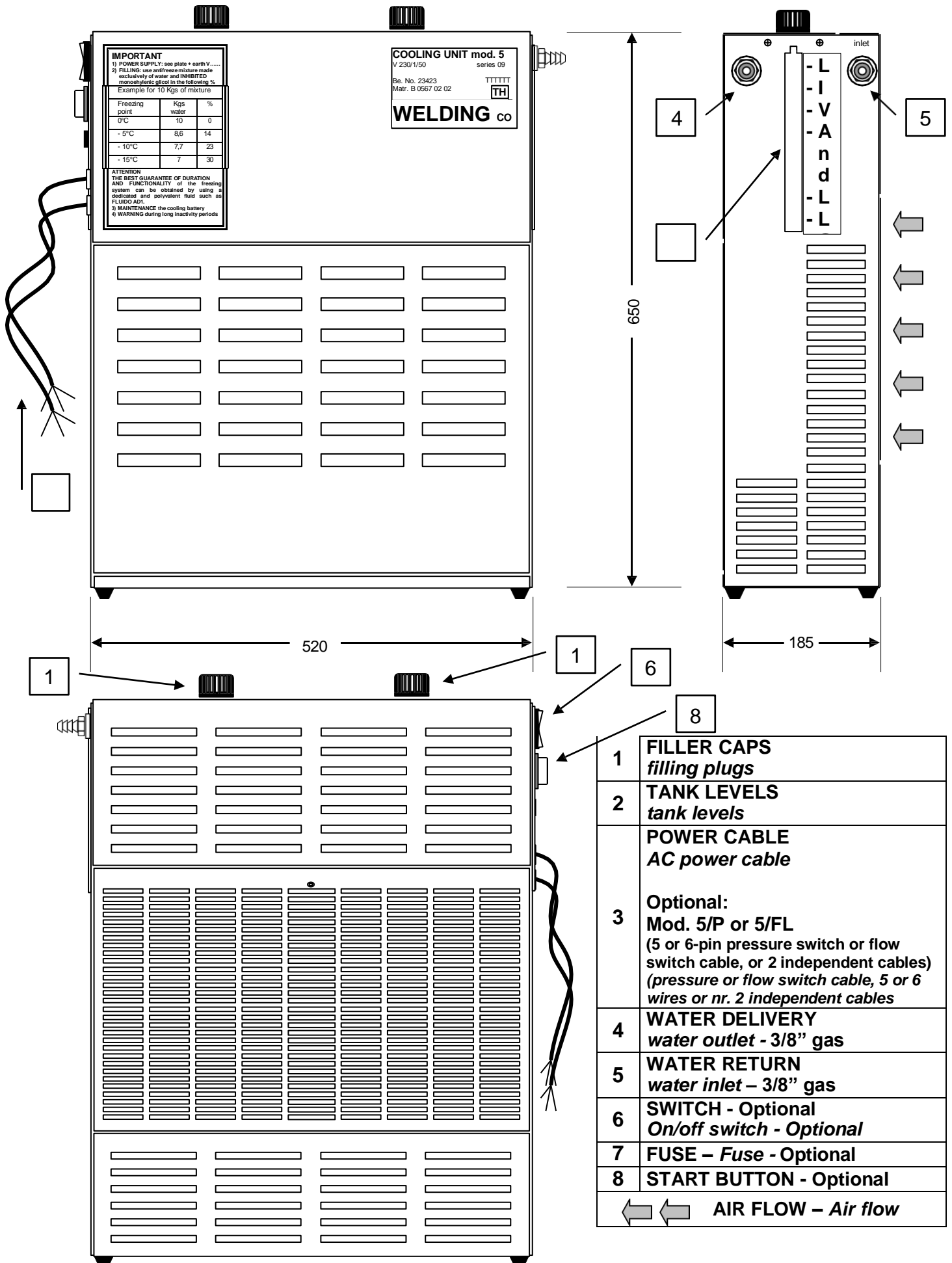
NOMINAL CAPACITY	5,500 W with Q = 20Lt/Min
MAX WATER TEMPERATURE	60° C
WATER FLOW min. /Max	0,25 / 40 Lt/min. - see pumps tab
HEAD max. / min.	150/0 mt. (15/0 bar) see pumps
AIR FLOW (useful)	940 mc/h
INSTALLED POWER (pump)	from 110 to 580 W - see pump data sheet
INSTALLED POWER (fan)	2 x 48 W
WATER IN/OUT CONNECTIONS	3/8" on the RIGHT side
WITH HEXIGATOR	12 mm or on request
TANK CAPACITY	2 x 5 Lt c.a
CU-AL COOLING COIL	4.2 sqm (35 bar tested) internally polished with two circuits in series or parallel (depending on the flow rate)
FANS N° 2	Low noise 1400 rpm - fans 200 mm 31°
FEEDING	V 230-400/1/50-60 (others on request)
COOLING FLUID	<b>WATER:</b> well, dejonised, distilled - inhibited water/glycol mixture (max. 30%) recommended fluid ns <b>FLUID AD11</b>
DIMENSIONS Length x Width x Height	520 X 185 X 650 + 10 mm removable feet
WEIGHT	Kg. 27 C.a
BODY COLOURS	WHITE - BLACK - GREY - YELLOW
LETTERING COLORS	WHITE - BLACK
OPTIONAL ACCESSORIES	Pressure switch - Flow switch - Taps - Quick couplings - Thermostat - Transformer - Button and light switch - Automatic Start Stop pressure switch

## SPECIAL EXECUTIONS

With series or parallel circuits to optimize the yield according to the required flow rate. Layout and Number of in/out connections. To the right, left, right and left.

## PARTICULARITY

PUMPS	SPECIAL FEATURES			
Pump Model	Flow rate lt./min (min/max)	Head mt. (max/min.)	potenza input W	Special notes
<b>LOW FLOW RATE - MEDIUM PRESSURE</b>				
SAL 40	1/9	39/3	300 INSULATED V 4,000	Suitable for low spot welders Water flow rate
<b>MEDIUM FLOW - MEDIUM PRESSURE STANDARD PUMP</b>				
SAL45	428	46/3	580	Suitable for medium spot welders size
<b>LOW FLOW RATE - HIGH PRESSURE</b>				
PR 2 AS	0/3,5	150/0 by-pass, adjustable	160 (max 70 mt) 245	
PR 3 AS	0/5,3	150/0 by-pass, adjustable	160 (max 60 mt) 245	
PR 4 AS	0/7,16	150/0 by-pass, adjustable	245 (max 90 mt) 345	



1	<b>FILLER CAPS</b> <i>filling plugs</i>
2	<b>TANK LEVELS</b> <i>tank levels</i>
3	<b>POWER CABLE</b> <i>AC power cable</i>
3	<b>Optional:</b> Mod. 5/P or 5/FL (5 or 6-pin pressure switch or flow switch cable, or 2 independent cables) (pressure or flow switch cable, 5 or 6 wires or nr. 2 independent cables)
4	<b>WATER DELIVERY</b> <i>water outlet - 3/8" gas</i>
5	<b>WATER RETURN</b> <i>water inlet - 3/8" gas</i>
6	<b>SWITCH - Optional</b> <i>On/off switch - Optional</i>
7	<b>FUSE - Fuse - Optional</b>
8	<b>START BUTTON - Optional</b>
← ← AIR FLOW - Air flow	

# UNITÀ RAFFREDDAMENTO Cooling Unit

Mod. 9

## SPECIFICATIONS

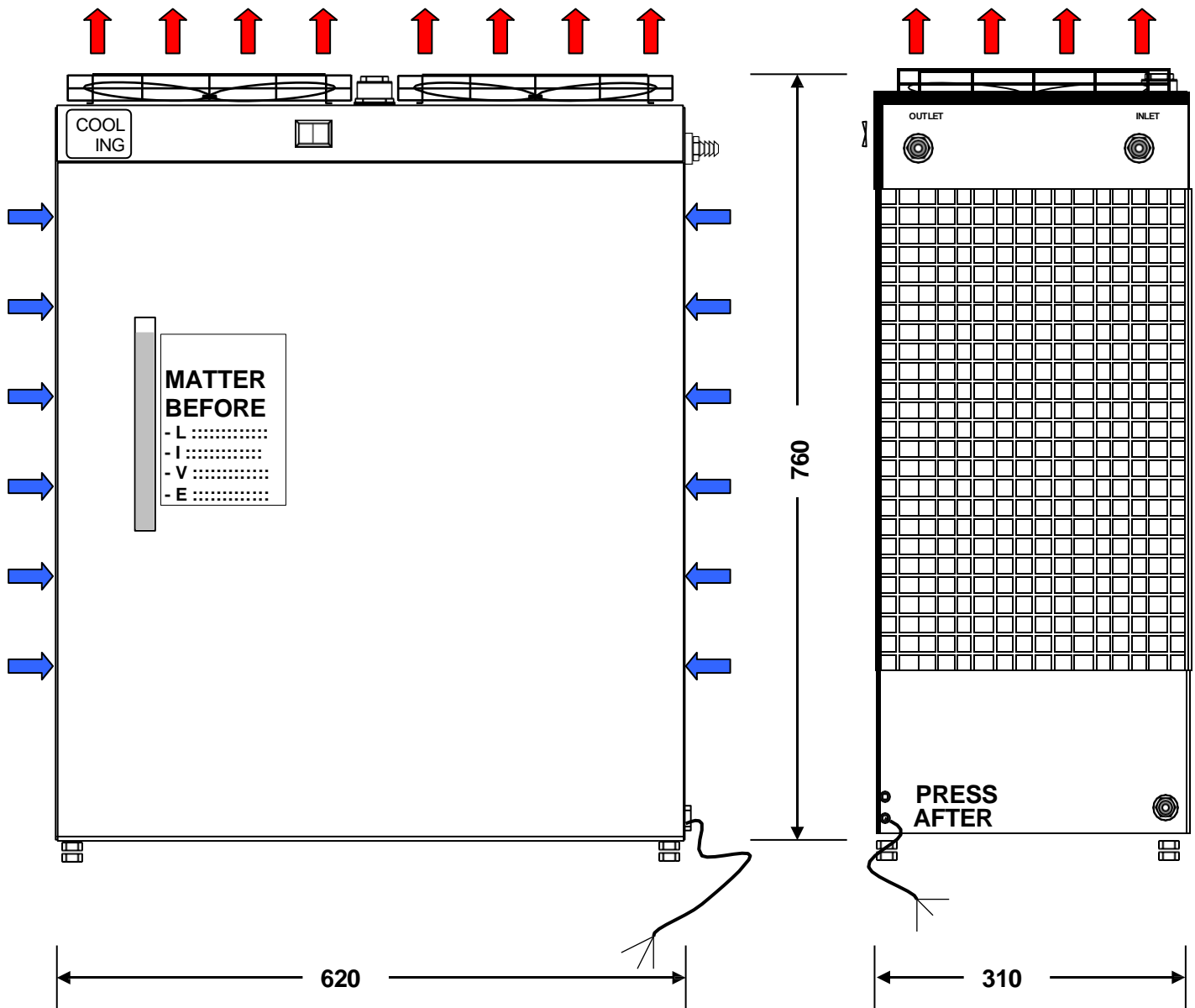
NOMINAL CAPACITY	9,000 W at Q = 15 Lt/Min
MAX WATER TEMPERATURE	60° C
WATER FLOW min. /Max	0,25 / 40 Lt/min. - see pumps tab
HEAD max. / min.	150/0 mt. (15/0 bar) see pumps
AIR FLOW (useful)	1900 mc/h
INSTALLED POWER (pump)	from 110 to 580 W - see pump data sheet
INSTALLED POWER (fan)	2 x 80 W 0 116W
WATER IN/OUT CONNECTIONS	1/2" F gas
WITH HEXIGATOR	12 mm or on request
TANK CAPACITY	25 Lt c.a
CU-AL COOLING COIL	2 x 4.2 m <sup>2</sup> (35 bar tested)
FANS N° 2	Low noise 1400 rpm - fans 254mm 31°
FEEDING	V 230-400/1/50-60 (others on request with Autot)
COOLING FLUID	<b>WATER:</b> well, dejonised, distilled - inhibited water/glycol mixture (max. 30%) recommended fluid ns <b>FLUID AD11</b>
DIMENSIONS Length x Width x Height	310 X 620 X 723 + 36 mm fan network
WEIGHT	Kg. 38 C.a
BODY COLOURS	GREY RAL 7035
LETTERING COLORS	WHITE - BLACK
OPTIONAL ACCESSORIES	Pressure switch - Flow switch - Taps - Quick couplings - Thermostat - Transformer - Button and Luminous switch + Automatic Start Stop Pressure Switch

## SPECIAL EXECUTIONS

With series or parallel circuits to optimize the yield according to the required flow rate. Layout and number of in/out connections. To the right, left, right and left.

## PARTICULARITY

PUMPS		SPECIAL FEATURES		
Pump Model	Flow rate lt./min (min/max)	Head mt. (max/min.)	potenza input W	Special notes
<b>MEDIUM FLOW - MEDIUM PRESSURE STANDARD PUMP</b>				
SAL45	428	46/3	580	
<b>LOW FLOW RATE - HIGH PRESSURE</b>				
PR 2 AS	0/3,5	150/0 by-pass, adjustable	160 (max 70 mt) 245	
PR 3 AS	0/5,3	150/0 by-pass, adjustable	160 (max 60 mt) 245	
PR 4 AS	0/7,16	150/0 by-pass, adjustable	245 (max 90 mt) 345	



1	<b>FILLER CAP - filling plug</b>
2	<b>TANK LEVEL - tank level</b>
3	<b>CAVO POTENZA - AC power cable</b> Optional: Mod. 9/P or 9/FL pressure switch cable or flow switch with 5 or 6 poles, or 2 independent cables - pressure or flow switch cable, 5 or 6 wires or nr. 2 independent cables)
4	<b>WATER DELIVERY - water outlet - 1/2" gas F.</b>
5	<b>WATER INLET - 1/2" gas F.</b>
6	<b>SWITCH - On/off switch</b>
<b>COOLING AIR FLOW – air flow</b>	

# UNITÀ RAFFREDDAMENTO Cooling Unit

**Mod. 21**

## SPECIFICATIONS

NOMINAL CAPACITY	21,00 W with Q = 10Lt/Min
MAX WATER TEMPERATURE	60° C
WATER FLOW min. /Max	5,3 / 53 Lt/min. - see pumps tab
HEAD max. / min.	100/0 mt. (10/0 bar) see pumps
AIR FLOW (useful)	2,860 mc/h
INSTALLED POWER (pump)	from 330 to 750 W - see pump data sheet
INSTALLED POWER (fan)	245 W
WATER IN/OUT CONNECTIONS	3/8" F or 1/2" per pump
WITH HEXIGATOR	12 mm or on request
TANK CAPACITY	27 Lt c.a
CU-AL COOLING COIL	12.9 sqm
FAN	Ø 400 mm
FEEDING	V 230/1/50-60 (others on request)
COOLING FLUID	<b>WATER:</b> well, dejonised, distilled - inhibited water/glycol mixture (max. 30%) recommended fluid ns <b>FLUID AD11</b>
DIMENSIONS Length x Width x Height	750 x 705 x 620
WEIGHT	Kg. 44 C.a
BODY COLOURS	GREY RAL 7035
LETTERING COLORS	WHITE - BLACK
OPTIONAL ACCESSORIES	Pressure switch - Flow switch - Faucets - Quick couplings - Thermostat - Transformer - Push button and Illuminated switch

## SPECIAL EXECUTIONS

**With series or parallel circuits to optimize the yield according to the required flow rate. Layout and number of in/out connections. To the right, left, right and left.**

## PARTICULARITY

PUMPS		SPECIAL FEATURES		
<i>Electric pump model</i>	<i>Flow rate lt./min (min/max)</i>	<i>Head mt. (max/min.)</i>	<i>potenza input W</i>	<i>Special notes</i>
PQM60Bs in Bronzo	May-40	38/5	370	
PQAm60 in Ryton	Feb-32	38/5	370	<b>Standard Appliance</b>
PQM65Bs Bronze - High Press.	May-50	50/8	500	





# UNITÀ RAFFREDDAMENTO Cooling Unit

**Mod. FA3**

## SPECIFICATIONS

FEEDING	V 230/1/50-60
MAX WATER TEMPERATURE	5 / 60° C
WATER FLOW min. /Max	0,25 / 5 Lt/min. - type SAL40
INPUT HEAD min.	12/0 mt. (1.2 bar)
OUTPUT HEAD max./min.	80/0 mt. (8 bar) factory calibration at 4 bar
MANOMETER	0.-10 bar outlet pressure control
INSTALLED POWER (pump)	187 W
WATER IN/OUT CONNECTIONS	3/8" F gas
WITH PUSH-ON ATTACHMENTS	8 X 10 mm Rilsan or on request
WATER INLET	Intercepted by 3/8" gas ball valve
FDM2 10" FILTER SOFTENER	Selective ion exchange resins. It eliminates the salts contained in the water, keeping the hardness and conductivity at very low values. The resin is selective against copper and iron ions. Colour change to saturated resins.
PUMP MOD. PRM27AZ	Graphite vane volumetric, bronze body, stainless steel shaft, pressure regulator, clamp motor coupling
ENGINE Cod. C0088900	RPM W 187, CEI IP 54, V 230/1/50-60
PRESSURE SWITCH	1/4", calibrated to 1.5 bar, neoprene diaphragm
FDM2 FILTER REPLACEMENT CARTRIDGE	From 10" to selective resins with color change
DIMENSIONS Length x Width x Height	247 X 190 X 500 + 10 mm removable feet
WEIGHT	Kg. 15 C.a
BODY COLOURS	WAGON GREEN
LETTERING COLORS	WHITE
INCLUDED ACCESSORIES	Lifting handle
REMOTE CONTROL	Group remote control with 110/115 Vac relay

## SPECIAL EXECUTIONS

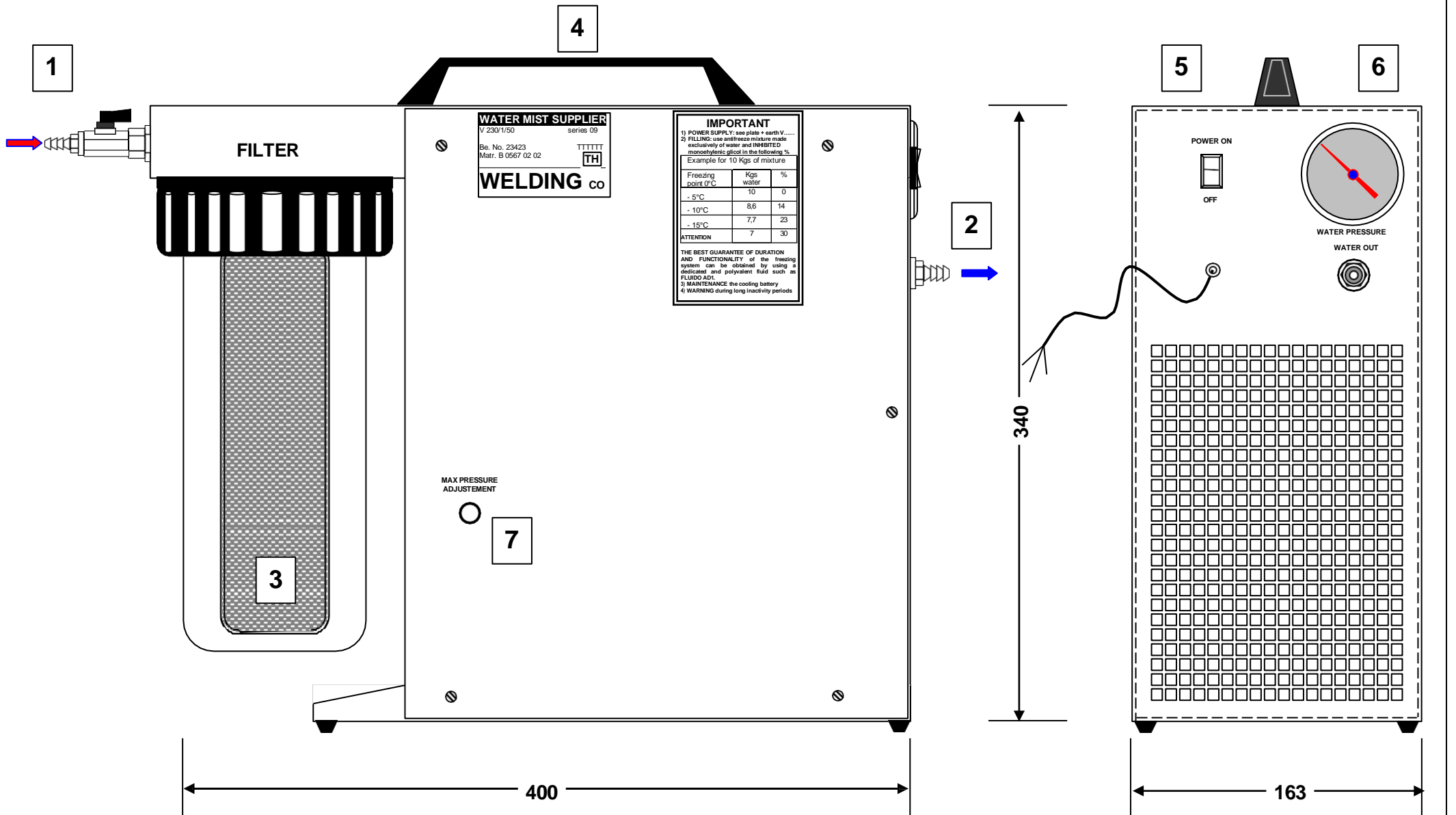
**HIGH CAPACITY WATER SOFTENER FILTER** for very hard water or intense work cycles to be applied before the power supply. It increases the autonomy of the system.  
Capacity to be determined based on the flow rate and hardness characteristics of the water.

## LEGEND

- 1 - Mains or tank water inlet. Att. shoe for 8x10 Rilsan or polyurethane hose
- 2 - Water outlet Att. Shoe for 8x10 Rilsan or polyurethane hose
- 3 - 9" 3/4 filter with FDM2 resin or 5 Lt hydrosphere for Autoclave model
- 4 - Lifting handle
- 5 - ON/OFF switch
- 6 - Pressure gauge for outlet pressure control
- 7 - Maximum pump pressure adjustment



# WATER MIST FEEDER – WATER MIST SUPPLIER



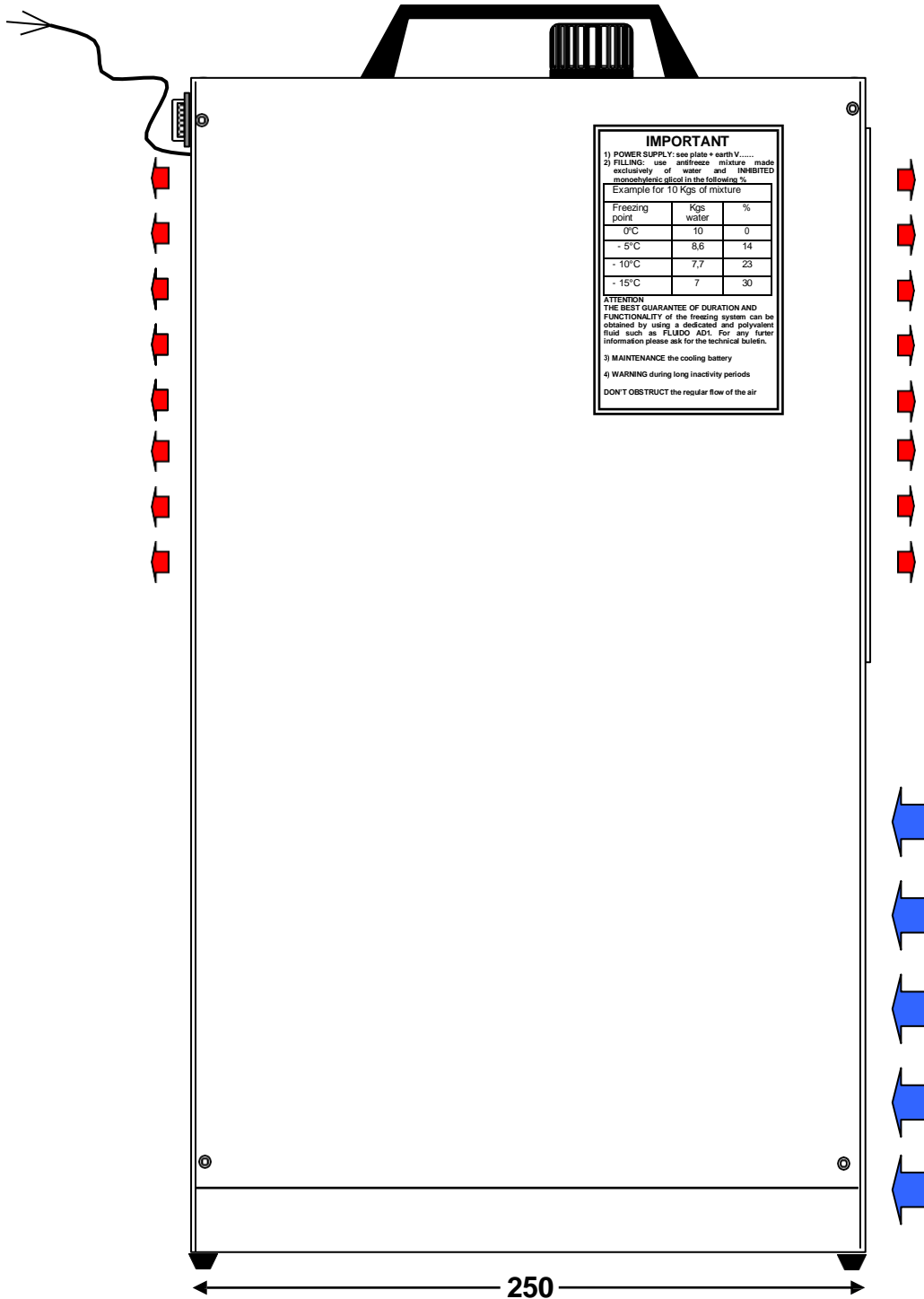
**UNITÀ RAFFREDDAMENTO Cooling Unit****Mod. MINI V****SPECIFICATIONS**

NOMINAL CAPACITY	1,800 watts
MAX WATER TEMPERATURE	60° C
WATER FLOW min. /Max	0,25 / 9
HEAD max. / min.	40/0
AIR FLOW (useful)	450 mc/h
INSTALLED POWER (pump)	220 W (V 230) / 230 W (V 400)
WATER IN/OUT CONNECTIONS	1/4" F
WITH HEXIGATOR	7 mm or on request
TANK CAPACITY	4,6 Lt c.a
CU-AL COOLING COIL	1.4 sqm (tested 35 bar)
POMP MOD. SALT 40 FAN	Peripheral centrifuge - bronze impeller body - Stainless steel shaft - internal thermo- amperometric protection
COOLING FAN	aluminum 154 mm 27° axial to pump motor
FEEDING	V 115-230-400/1/50-60 (others on request)
COOLING FLUID	<b>WATER:</b> well, dejonised, distilled - inhibited water/glycol mixture (max. 30%) recommended fluid ns <b>FLUID AD11</b>
DIMENSIONS Length x Width x Height	270 X 230 X 520 + 10 mm removable feet
WEIGHT	Kg. 11 C.a
BODY COLOURS	WHITE - BLACK - VARIOUS GREYS
LETTERING COLORS	WHITE - BLACK
OPTIONAL ACCESSORIES	Pressure switch - Quick couplings - Illuminated switch

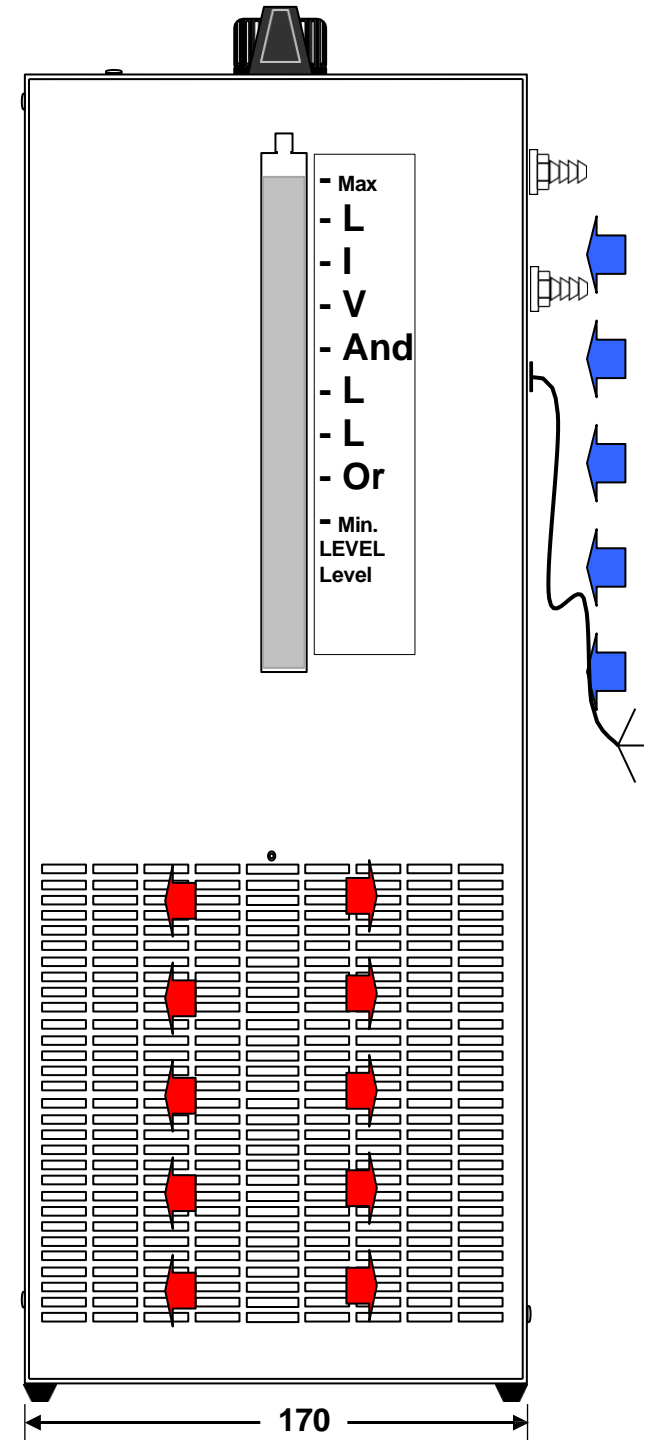
**SPECIAL EXECUTIONS****NONE****PARTICULARITY**

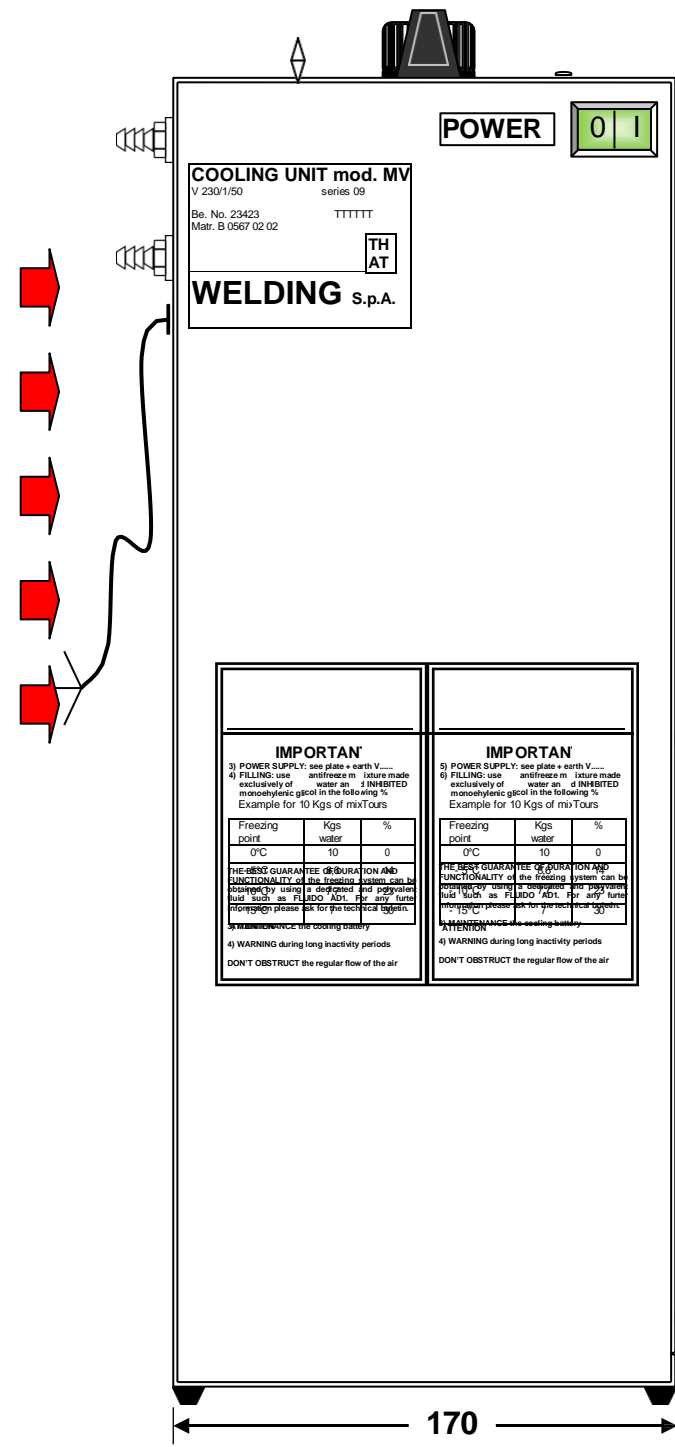
**EXCEPTIONAL COOLING CAPACITY IN RELATION TO THE SMALLEST OVERALL DIMENSIONS**  
**REMARKABLE RELIABILITY OF THE CENTRIFUGAL PUMPING UNIT, EVEN WITH WATER THAT IS NOT PERFECTLY CLEAN**  
**VERY EASY TO MAINTAIN**  
**CALCULATED COIL FIN PITCH AND SIZING FOR MAXIMUM EFFICIENCY AND EASY PERIODIC CLEANING**

# COOLING UNIT *COOLIG UNIT*



# MOD. **MINI V**





415



**IMPORTANT**

3) POWER SUPPLY: see plate + earth V....  
 4) FILLING: use antifreeze mixture made exclusively of water and INHIBITED monoethylene glycol in the following %:  
 Example for 10 Kgs of mixTours

Freezing point	Kgs water	%
0°C	10	0

THE BEST GUARANTEE OF DURATION AND FUNCTIONALITY of the freezing system can be obtained by using a dedicated and registered fluid such as FLUIDO AD1. For any further information please ask for the technical system.

4) WARNING during long inactivity periods  
 DON'T OBSTRUCT the regular flow of the air

**IMPORTANT**

3) POWER SUPPLY: see plate + earth V....  
 4) FILLING: use antifreeze mixture made exclusively of water and INHIBITED monoethylene glycol in the following %:  
 Example for 10 Kgs of mixTours

Freezing point	Kgs water	%
0°C	10	0

THE BEST GUARANTEE OF DURATION AND FUNCTIONALITY of the freezing system can be obtained by using a dedicated and registered fluid such as FLUIDO AD1. For any further information please ask for the technical system.

4) WARNING during long inactivity periods  
 DON'T OBSTRUCT the regular flow of the air

