

# ECOPOWER

THE ELECTRIC HEATING ECO-WASHER  
WITH PATENTED IDRO E-BOOST SYSTEM

PATENTED



*Can a hydro-washer be innovative again?*

INNOVATIVE TECHNOLOGY FOR A  
**GREEN ECONOMY!**



# ECOPOWER

## THE NEXT GENERATION ECO-WASHER WITH PATENTED IDRO E-BOOST SYSTEM

"ECOpower" is a high pressure eco-washer with **electric heating of water** using electric high pressure boilers and with **various water flow rates**; ecological and respectful of the environment and health. "ECOpower" integrates a **new unique patent**, called "IDRO E-BOOST system" which consists of a **pre-heating system in closed water circuit**: the system activates the **closed water circuit though tank, pump and booster-boilers**, so heating does not take place inside the tank, only in the boilers-boosters. The system remains in operation until the preset temperature of the water in the tank is reached. When high pressure washing begins, the closed water circuit stops and the pre-heated water runs one more time in the electric boilers (**BOOST**) for a temperature increase up to over 80 °C.

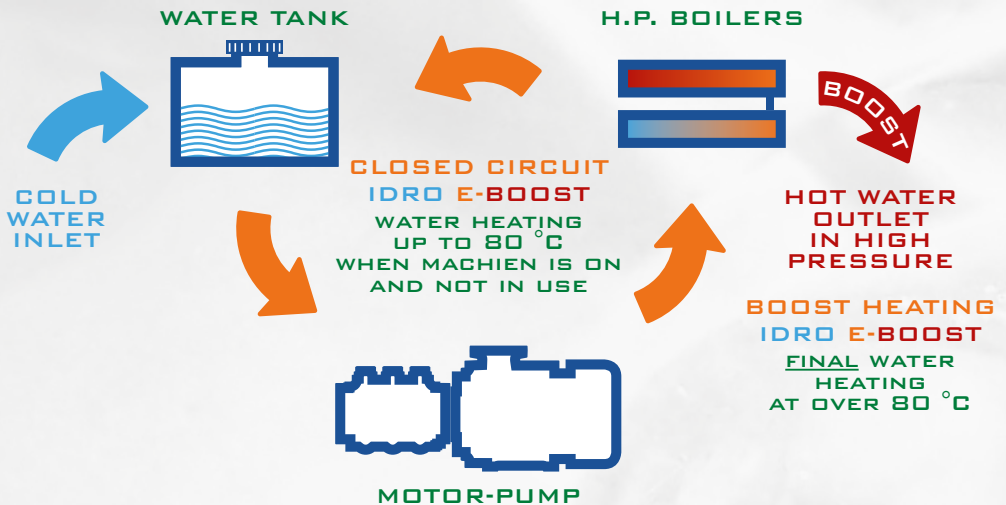
Thanks to this system, there is an **energy saving** because the pre-heated water needs **less kW to reach higher temperatures**.

This new patent **improves the thermal effect** of the washing action that is able to **break down bacteria and microflora** present on the work surfaces operating a deep cleansing of the treated surfaces, combining the **removal of dirt and processing residues** with an effective **thermal sanitization**, thanks to the targeted effect of the high pressure jet.

"ECOpower" is **ideal for all internal areas**, not using fuel boilers to generate the thermal effect. Therefore there is **no emission of polluting fumes** into the atmosphere, **no generation of aerosols or vapor clouds or aqueous dispersions** thanks to the reduced water flow rates.

With high pressure and high temperatures, the machine performs an effective detachment of persistent and sticky residues and solubilizes organic substances and mixed residues.

All this allows **economic, ecological and time savings**, thanks to the **versatility of use**, and streamlines the operation according to the sanitization protocols used globally.



**ELECTRI WATER PRE-HEATING SYSTEM  
WITH RECIRCULATION AND SUBSEQUENT  
"BOOST" HEAT WHEN USING WASHING  
WITH HIGH PRESSURE**



## **CLOSED CIRCUIT PRE-HEATING**

THE PATENTED SYSTEM  
ACTIVATES THE CLOSED CIRCUIT  
PASSING THROUGH WATER TANK,  
PUMP AND BOILERS-BOOSTER  
(WATER HEATING  
DOES NOT TAKE PLACE  
INSIDE THE WATER TANK)

## **ENERGY SAVING**

CLOSED CIRCUIT ALLOWS TO USE  
LESS KW FOR WATER HEATING  
REACHING ALIKE HIGH TEMPERATURES  
AND HIGHER FLOW RATES

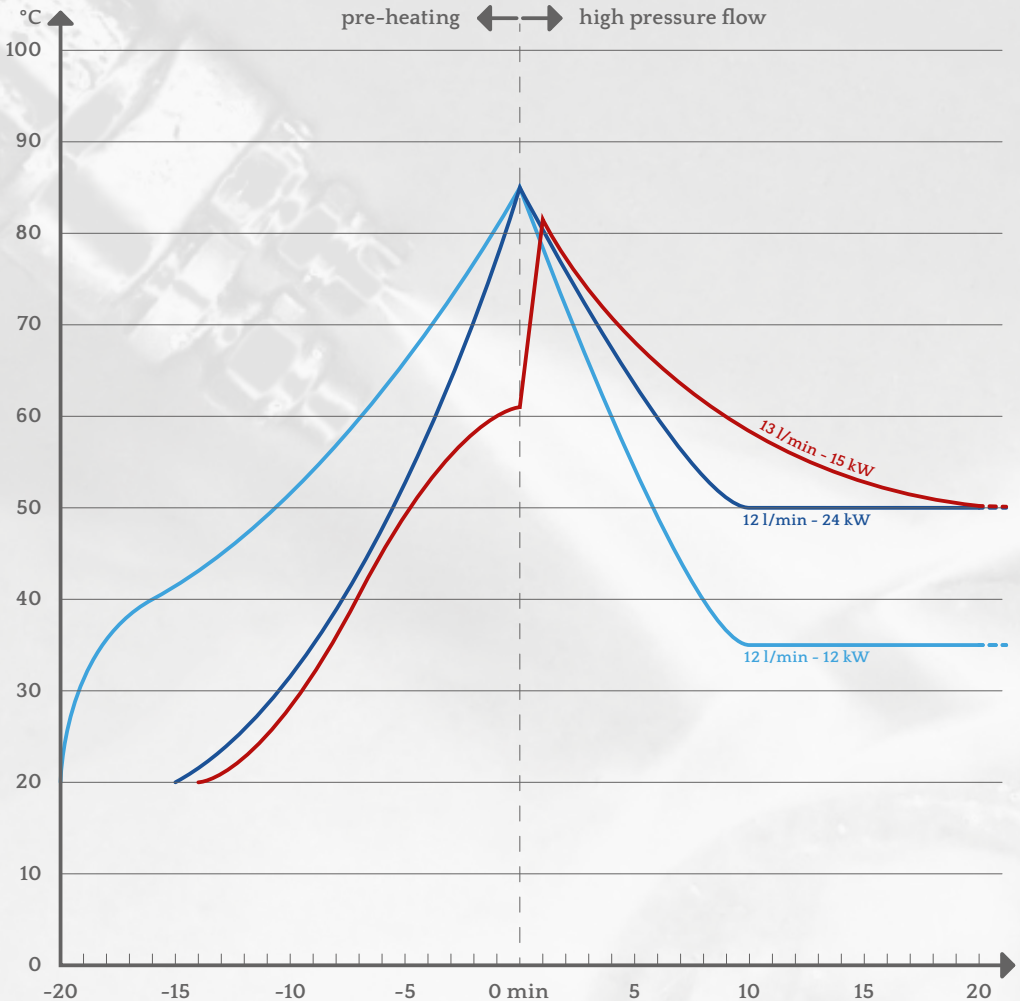
## **IDRO E-BOOST**

CLOSED CIRCUIT IS ON  
WHEN SPRAY GUN IS NOT ACTIVATED



# ECOPOWER TEMPERATURE CURVES WITH PATENTED IDRO E-BOOST SYSTEM

“ECOpower”, with the “IDRO E-BOOST” patent consisting in a pre-heating system in closed water circuit and subsequent final “boost” heat in high pressure, allows water to quickly reach the peak temperature and, unlike competing technologies, it has a much softer and longer temperature reduction curve over time of use, settling at higher temperatures with lower kW consumption.



150 bar - 13 l/min - 15 kW

ECOpower 150.13.15 ST

150 bar - 12 l/min - 12 kW

traditional pre-heating high pressure washers

150 bar - 12 l/min - 24 kW



# ECOPOWER

WITH PATENTED IDRO E-BOOST TECHNOLOGY

VERSION ST	PRESSURE BAR	FLOW RATE L/MIN	TOTAL POWER			WATER TANK L
			KW BOILER	KW MOTOR	A	
150.2.5	150	2,5	5	1,5	10	44
150.5.8	150	5,6	8	2,2	16	44
170.8.15	170	7,5	15	3,0	25	44
						80
150.11.15	150	11,0	15	3,0	25	80
170.13.15	170	13,0	15	4,0	28	80
150.15.15	150	15,0	15	4,0	28	80
170.11.20	170	11,0	20	4,0	37	80
140.13.18	140	13,0	18	3,0	32	80
170.13.20	170	13,0	20	4,0	37	80
150.15.20	150	15,0	20	4,0	37	80
170.13.25	170	13,0	25	4,0	44	80
150.15.25	150	15,0	25	4,0	44	80
180.15.30	180	15,0	30	5,5	49	80
180.18.30	180	18,0	30	5,5	49	80

ALL MACHINES ARE AVAILABLE WITH 400 V ~3 50 Hz (other on request)

## DOUBLE HEATING SYSTEM

WHILE WASHING UNDER HIGH PRESSURE,  
THE PRE-HEATED WATER IN THE TANK IS “BOOSTED”  
THROUGH THE HIGH PRESSURE BOILERS BEFORE  
EXITING THE NOZZLE REACHING HIGHER TEMPERATURES:  
**IDRO E-BOOST SYSTEM**

## ALWAYS READY FOR USE

WHEN THE CLOSED CIRCUIT PRE-HEATING SYSTEM  
IMMEDIATELY STOPS, THE MACHINE IS ALWAYS  
IN HIGH PRESSURE

## ENERGY SAVING

LESS KW NEEDED FOR HEATING WATER  
DURING USE

## ENVIRONMENTAL FRIENDLY

ZERO CO<sub>2</sub> EMISSIONS, IDEAL FOR INTERNAL USE

## TECHNICAL DATA

WATER FLOW RATE	POWER OUTPUT	PRESSURE
2,5 TO 15,0 L/MIN	5 TO 30 KW	140 TO 180 BAR

FLOW RATES - POWER OUTPUTS - PRESSURES MAY BE COMBINED IN DIFFERENT WAYS  
HIGHER FLOW RATES AND POWER OUTPUTS MAY BE REQUESTED

## ACCESSORIES

HIGH PRESSURE HOSE - HIGH PRESSURE GUN  
LANCE HANDLE - FAN JET NOZZLE