

# ETH

## MULTISOURCE HEAT PUMP

		ETH006	ETH009	ETH012	ETH015	ETH017
<b>COOLING WITH GROUND SOURCE B30/W18</b>						
Cooling capacity UNI EN 14511	kW	8,7	13,2	15,3	20,0	23,7
Total power input UNI EN 14511	kW	1,4	2,3	2,8	3,6	4,2
EER UNI EN 14511	-	6,05	5,68	5,49	5,55	5,62
<b>COOLING + DHW W18/W55</b>						
Cooling capacity UNI EN 14511	kW	7,2	11,1	12,6	15,9	18,5
Heating capacity UNI EN 14511	kW	9,1	14,1	16,1	20,5	23,9
Total power input UNI EN 14511	kW	2,1	3,4	3,8	5,1	6,0
Total COP UNI EN 14511	-	7,61	7,47	7,49	7,13	7,10
<b>COOLING WITH AIR SOURCE A35/W18</b>						
Cooling capacity UNI EN 14511	kW	8,2	12,3	14,7	18,6	21,7
Total power input UNI EN 14511	kW	1,7	2,8	3,3	4,3	5,2
EER UNI EN 14511	-	4,77	4,37	4,44	4,29	4,15
<b>HEATING WITH GROUND SOURCE B10/W35</b>						
Heating capacity UNI EN 14511	kW	8,1	12,4	14,3	18,7	22,0
Total power input UNI EN 14511	kW	1,4	2,3	2,6	3,3	4,0
COP UNI EN 14511	-	5,98	5,49	5,48	5,60	5,49
<b>HEATING WITH GROUND SOURCE B0/W35 25% GLYCOL</b>						
Heating capacity UNI EN 14511	kW	6,0	9,3	10,7	14,0	16,5
Total power input UNI EN 14511	kW	1,4	2,2	2,5	3,2	3,8
COP UNI EN 14511	-	4,46	4,20	4,26	4,37	4,36
<b>HEATING WITH AIR SOURCE A7/W35</b>						
Heating capacity UNI EN 14511	kW	6,6	10,1	12,0	15,4	20,3
Total power input UNI EN 14511	kW	1,4	2,3	2,9	3,5	4,2
COP UNI EN 14511	-	4,75	4,37	4,22	4,38	4,87
<b>DHW WITH GROUND SOURCE B10/W55</b>						
Heating capacity UNI EN 14511	kW	7,5	11,6	13,2	16,8	19,7
Total power input UNI EN 14511	kW	2,1	3,3	3,7	4,9	5,7
COP UNI EN 14511	-	3,59	3,48	3,55	3,42	3,45
<b>DHW WITH AIR SOURCE A7/W55</b>						
Heating capacity UNI EN 14511	kW	6,4	9,7	11,4	14,3	18,3
Total power input UNI EN 14511	kW	2,1	3,3	3,9	5,0	5,9
COP UNI EN 14511	-	3,03	2,92	2,91	2,84	3,10
<b>SEASONAL EFFICIENCY</b>						
ERP efficiency class (water source)	-	A+++	A+++	A+++	A+++	A+++
ERP efficiency class (air source)	-	A+	A+	A+	A++	A++
Sound power level Lw	dBA	62	65	68	66	67
<b>COMPRESSOR</b>						
Type of compressor		Scroll BLDC Inverter				
Power supply		230/1/50	230/1/50	230/1/50	400/3/50	400/3/50
<b>DIMENSIONS</b>						
Dimensions (L x H x D)	mm	1591x566x1165h			1700x566x1165h	

Data calculated ref. EN 14511 and EN 14825 for seasonal efficiencies



## MULTISOURCE HEAT PUMP MULTIFUNCTION WITH TOTAL RECOVERY

# ETH



## INVERTER



**ENEREN SRL**  
Viale Spagna, 31/33  
35020 Tribano (PD) Italy  
Tel. +39 049 9271513  
Fax +39 049 9588522  
e-mail: [info@eneren.it](mailto:info@eneren.it)  
[www.eneren.it](http://www.eneren.it)

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6 - 17 kW



# ETH

## MULTISOURCE HEAT PUMP MULTIFUNCTION WITH TOTAL RECOVERY

ETH is a **multifunction or polyvalent total recovery** heat pump for heating, cooling and domestic hot water at high temperature production with **Inverter BLDC compressors**, realized in external monoblock execution.

The units of **ETH** series have a reduced noise emission thanks to components like **EC fans** and **insulated compressor box** equipped in the standard unit.

Choosing either the external air or the underground, and depending on the most convenient thermal source, ETH units achieve the highest energy efficiency in every condition.

- **MAXIMUM SEASONAL EFFICIENCY THANKS TO DOUBLE SOURCE UNDERGROUND AND AIR**

In accordance to the new low-GWP refrigerant regulation, ETH achieves the highest seasonal energy efficiency thanks to the most convenient thermal source, chosen according to external air temperature and return water temperature from the ground.

ETH is able to **maximize the heating mode SCOP** and the **cooling mode SEER**, taking advantage of a large reduction in the actual number of borehole heat exchangers.



- **INVERTER BLDC COMPRESSOR AND BLDC FANS**

- **A2L READY FOR NEXT GENERATION OF LOW GWP REFRIGERANTS**

- **FINNED COIL WITH HYDROPHILIC TREATMENT AND HEAT EXCHANGERS ALWAYS IN COUNTERFLOW MODE (COP > 8%)**

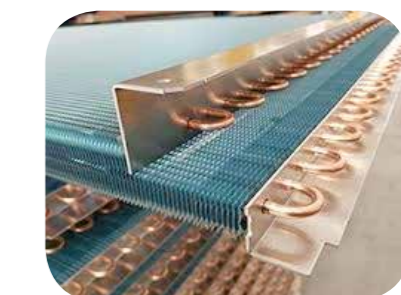
- **USER AND DOMESTIC HOT WATER SIDES FLOW METERS AND TEMPERATURE SENSORS FOR ENERGY MEASUREMENTS**

- **EXTREMELY LOW NOISE WITH HI-BOX® TO REDUCE THE COMPRESSOR NOISE EMISSION**

- **SMART GRID WITH PHOTOVOLTAIC AUTO CONSUMPTION FUNCTION**

- **REDUCED REFRIGERANT CHARGE FINNED COILS WITH Ø5mm PIPES**

Innovative finned coil execution with ø5mm copper pipes that **reduces the refrigerant charge** in the unit, keeping the same efficiency.



- **EASY TO USE WITH SUPERVISION AND REMOTE CONTROL THROUGH THE ENERWEB APP**

**Enerweb** is the original web responsive system designed for supervision and remote control of Eneren products to deliver access to the entire cooling system, HVAC and thermoregulation of the building.



- » Multifunction unit available in total recovery or 3-way valve version
- » Electronic expansion valve
- » High efficiency AISI 316 stainless steel brazed plate heat exchangers
- » R410A refrigerant
- » High efficiency electronic pumps class A
- » Compact and easy to install

