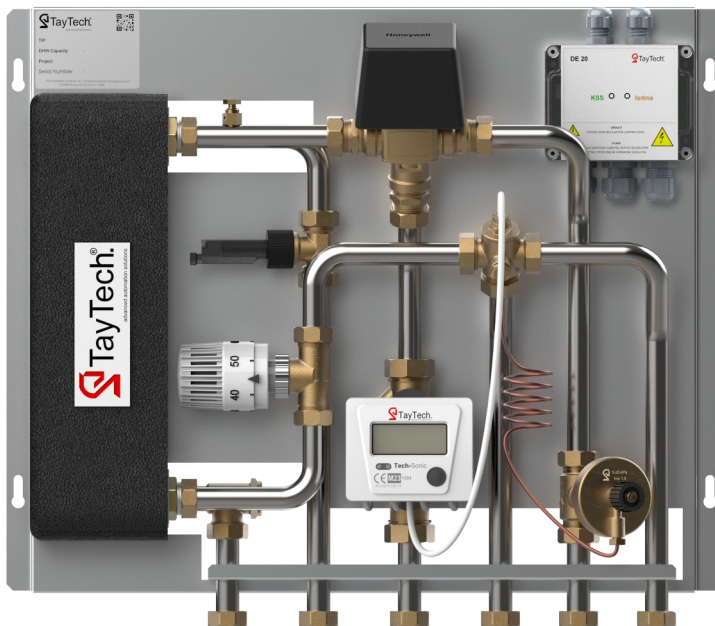


Direct Hydro-EM RH

1. General Description



Direct Hydro-EM is used to prepare the domestic hot water and balancing at the primary side. It can work for extended period of time without accumulation of calcification because the heat exchanger is able to remain cold by itself. Hydro-EM has flow switch and 3 way diverter valve to get the maximum efficiency and has the priority of generating hot water. It provides low return temperatures at the primary side. It is suitable for usage with condensing boilers. Material of heat exchanger and pipes are stainless steel and HIU can work efficiently in conjunction with aluminum radiators.

Direct Hydro-EM has differential pressure valve, flow switch, 3 way diverter valve and zone valve that are working together towards obtaining perfect balance in the system. It is used in buildings with central heating system to prepare domestic hot water and individualizing the heating feature for each user.

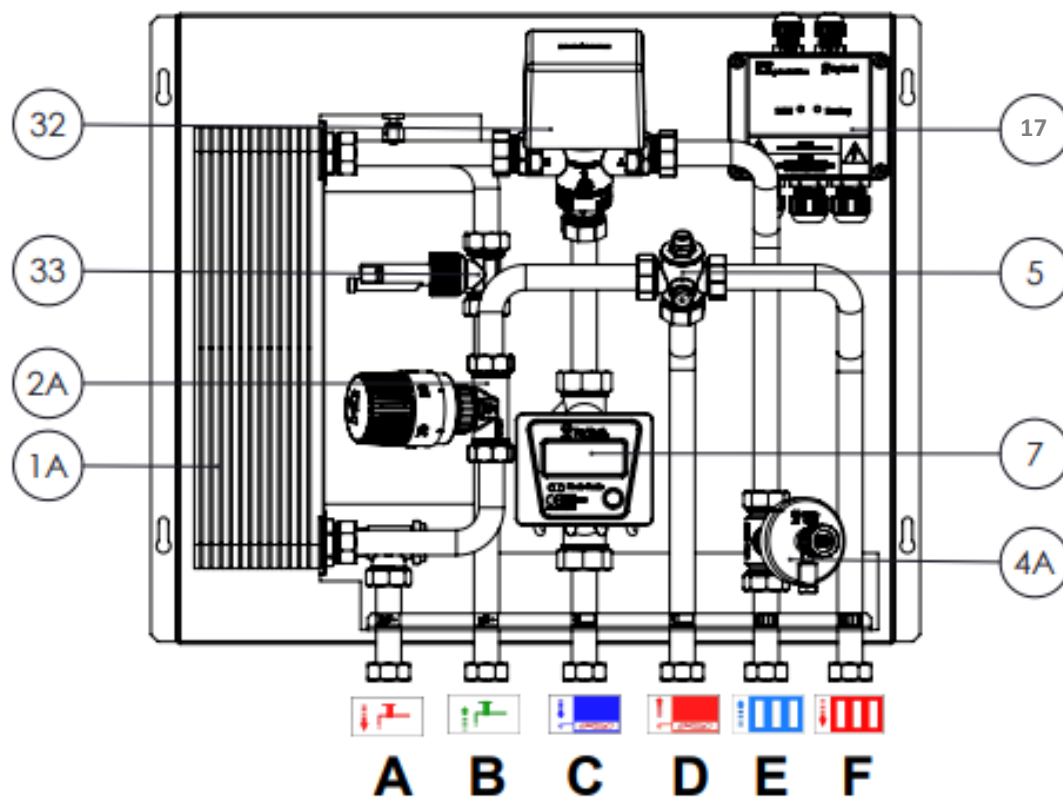
Features

- Stainless steel Hex and pipes
- Instantaneous response to DHW demand
- Suitable for low supply temperatures
- Integrated differential pressure valve

★ Direct Hydro-EM RH

2. Hydraulic Review

2.1 Component List



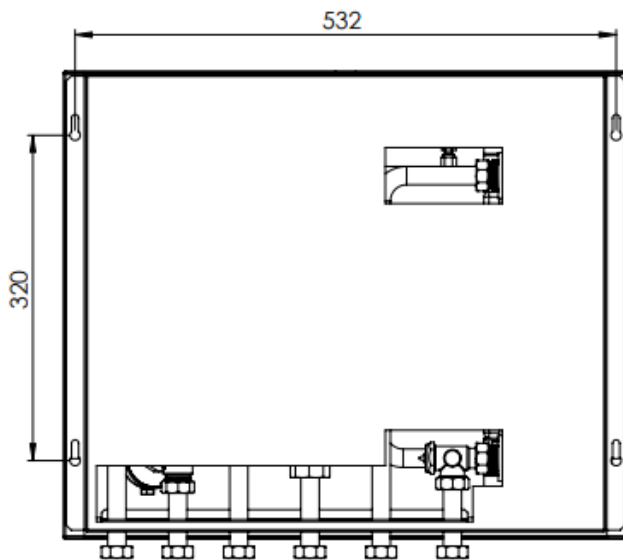
1A DHW Heat Exchanger
 2A DHW Temperature Control Valve
 4A Differential Pressure Valve
 5 District Heating Strainer

17 Controller Box
 7 Heat Meter
 32 3 Way Diverter Valve
 33 Flow Switch

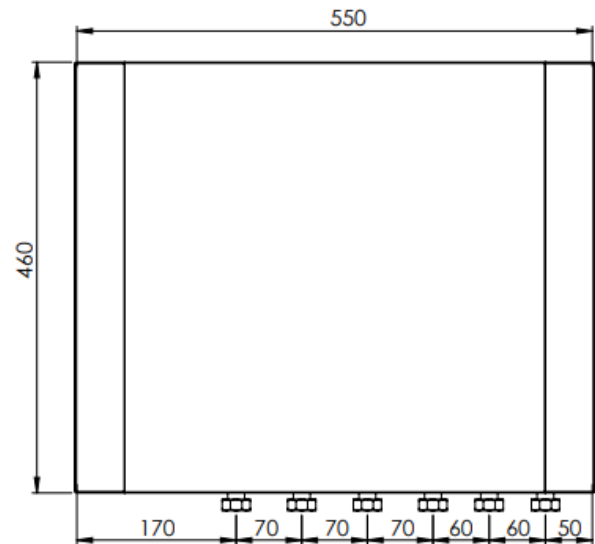
Direct Hydro-EM RH

2. Dimensions

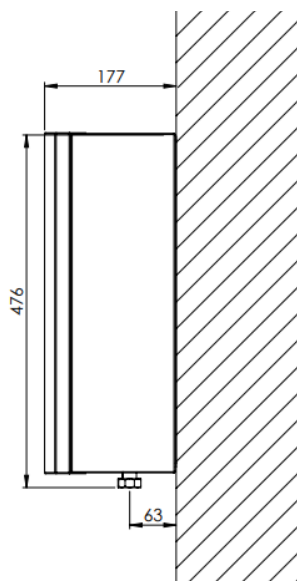
Back View



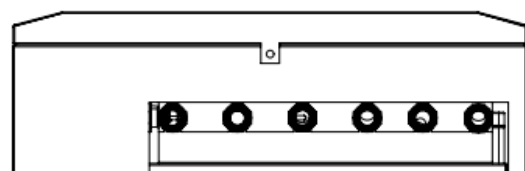
Front View



Wall Mounted View



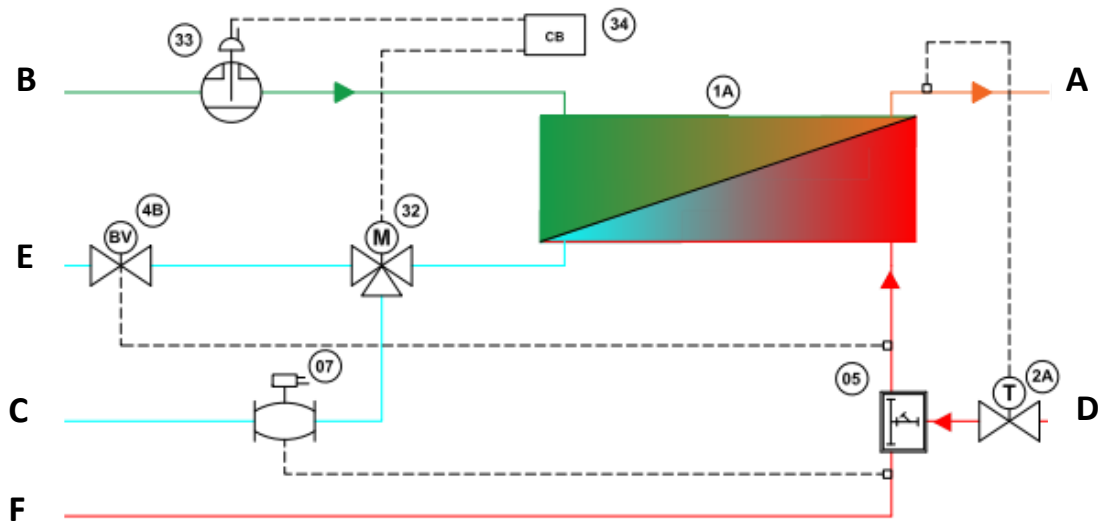
Bottom View



Direct Hydro-EM RH

2. Hydraulic Review

2.2 Flow Diagram



A — DHW	—	Domestic Hot Water
B — DCWI	—	Domestic Cold Water Inlet
C — DHR	—	District Heating Return
D — DHS	—	District Heating Supply
E — SHR	—	Space Heating Return
F — SHS	—	Space Heating Supply

★ Direct Hydro-EM RH

3. Technical Specifications

Description	Data
Nominal primary supply temperature	80°C
Maximum primary supply temperature	85°C
Minimum primary supply temperature	65°C *
Nominal DHW supply temperature	50°C
DHW Set Range	45°C to 60°C
Return Temp Limit Range	35°C to 65°C
CH Limit Range	30°C to 80°C
Primary connections	Female / 18mm
Mains & DHW connections	Female / 18mm
Central heating connections	Female / 18mm
Pressure relief	15mm
Maximal primary differential pressure (without dP regulator)	450 kPa
Pressure class DH circuit	PN16
Pressure class DHW circuit	PN10
SH Maximum working pressure	2.5 Bar
Casing width	550mm
Casing height	460mm
Casing depth	177mm
Casing Material	Metal case with Insulation
Weight	27kg
Electrical supply info	230V 50Hz
Fuse ratings	3 Amp

* Minimum required DH supply temperature is DHW setpoint + 5°C with a minimum of 65°C.

** Unit weight may vary depending on the optional components built into the unit.

Direct Hydro-EM RH

4. Performance Table

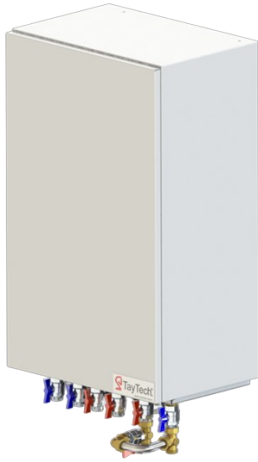
TYPE	Domestic Hot Water			Space Heating	Supply Temperatures		Supply Flow Rate	
	Heat Transfer Capacity (kW)	Flow (l/min)	Temperature	Capacity (kW)	65°C Primary Inlet	80°C Primary Inlet	65°C Primary Inlet	80°C Primary Inlet
			(°C)		Inlet/Outlet (°C)	Inlet/Outlet (°C)	l/min	l/min
Indirect Hydro-EM (TCDHI3)	33	13,5	45	10	65/21,7	80/17,72	11,2	7,8
		12	50		65/25,45	80/19,86	12,4	8,2
	50	20,6	45	20	65/22,8	80/18,64	17,5	12,1
		18	50		65/26,56	80/20,79	19,2	12,5
	65	26,6	45	25	65/22,11	80/18,05	22,2	15,5
		23,3	50		65/25,79	80/20,13	19	13,4
	80	33	45	25	65/21,47	80/17,52	27,1	19,1
		28,7	50		65/24,99	80/19,46	29,3	19,5

**For different capacities, please contact with our sales team.

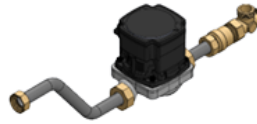
★ Direct Hydro-EM RH

5. Options

Decorative Steel Cover



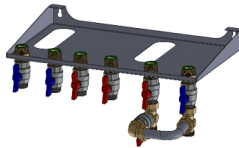
DHW Re-Circulation Kit



Water Hammer Arrester



Pre-Plumbing Brackets
for Easy Assembly



Flushing By-Pass Kit



Heat Meter

