

Instruction Manual for Installation and Operation



INDIRECT THERMOHEXA-SH

Contents

1	Explanation of Sybols and Abbreviations	3
2	Operation	4
2.1	Space Heating	4
3	General Plumbing Requirements	4
3.1	Fittings and Modifications	5
3.2	District Heating	5
3.3	Servicing	5
4	General Wiring Requirements	6
4.1	Danger of short circuit	6
5	Specifications	7
5.1	Component List	7
5.2	Flow Diagram	8
5.3	Dimensions	9
5.4	Technical Data	10
6	Installation	11
6.1	Mounting to the Wall	12
6.2	Flushing the System	12
7	Service	13
7.1	Power Supply	13
7.2	Circulation Pump	14
7.3	Performance View	15
8	Declaration Of Conformity	16

1 Explanation of Symbols and Abbreviations

Symbols



CAUTION General Safety Remark



CAUTION Hot Surface, Risk of Burn



CAUTION Risk of electrical shock



Requirement of 230V Alternating Current



Requirement of Handtool



Important Note



Phillips Screwdriver



Insulated flathead Screwdriver



Recycle component if possible



Dispose component



Motorized tool



Manual operation no need

Abbreviations

DH	District Heating	PE	Protective Earth
SH	Space Heating	°C	Temperature in degrees Celsius
DHW	Domestic Hot Water	kPa	Pressure Kilopascal
DCW	Domestic Cold Water	kg	Weight in kilograms
VAC	Volts Alternating Current	mm	Distance in millimetres
VDC	Volts Direct Current	PN	Pressure class in Bar
A	Current in Amps	"	Thread size in inch (ISO 228/1)
N	230VAC Neutral	HIU	Heat Interface Unit
L	230VAC Live (phase)		

2 Operation

2.1 Space Heating (SH)

The application minimizes the risk of contamination of district heating water as well as the risk and consequences of leakage in the space heating circuit. The thermostatic valves and temperature sensors regulate the temperature of the space heating.



CAUTION!

Components, pipes and radiators in, and connected to, the unit may be hot. The heat interface unit is designed for use with space heating systems up to 90°C. The pipes and components in the unit as well as the pipes and radiators in the space heating installation can reach these temperatures. Contact may lead to burns.

3 General Plumbing Requirements

New System Installations

When carrying out a completely new heating system installation in a new build property or a first time installation in an existing property, then the heating system must conform to current building regulations Part L1a. All new domestic heating systems must have a minimum of two heating zones. Each of these zones should be controlled by a thermostat and zone valve. Alternatively individual electronically controlled Thermostatic Radiator Valves may be fitted. If domestic hot water is provided by a storage system then the storage system or cylinder will require separate time and temperature control.

All radiators must have TRV's fitted in all rooms except bathrooms and any rooms where a thermostat is located. The exception to this are single storey, open plan dwellings where the living area is more than 70% of the total usable floor area. Then this type of dwelling can be controlled as one zone.

3 General Plumbing Requirements

Existing Installations

When carrying out boiler replacements on an existing system, the regulations do not require separate zoning of the upstairs and downstairs and compliance with the regulations can be achieved by a single room thermostat or programmable room thermostat. It is however recommended that TRV's are fitted to all rooms except the bathrooms and the room where a thermostat is located.

3.1 Fitting and Modifications

Fitting the appliance and any controls to the appliance may only be carried out by a competent engineer. Any misuse or unauthorised modifications to the appliance or associated components and systems could invalidate the guarantee and may lead to serious injury or even death. The manufacturer accepts no liability arising from any such actions, excluding statutory rights.

3.2 District Heating



CAUTION!

Components, pipes and radiators in, and connected to, the unit may be hot. The heat interface unit is designed for use with centralized heating systems up to 90°C. The pipes and components in the HIU as well as the pipes and radiators in the space heating installation can reach these temperatures. Contact may lead to burns.

Keep following conditions in mind during installation:

- Maximum pressure supplied by the district heating network is 16 bar.
 - Maximum differential pressure supplied by the district heating network is 600 kPa.
 - Maximum supplied temperature by the district heating network is 90°C.
- Minimal supply temperature is set-point DHW + 5°C.

3.3 Servicing

The end user should be advised to have the system serviced annually by a competent engineer. Contact your supplier for a list of approved engineers. Approved spares must be used to help maintain the economy, safety and reliability of the appliance. The service engineer must complete the Service Record after each service.

4 General Wiring Requirements

These instructions apply in the UK and Ireland only and must be followed except for any statutory obligations. Component specific electrical information may also be supplied in support of these instructions.

FAILURE TO INSTALL APPLIANCES CORRECTLY COULD LEAD TO PROSECUTION.



CAUTION!

Isolate the mains supply before starting any work and observe all relevant safety precautions. The HIU uses electrical components (230VAC). These components must stay dry at all times. Touching these components can result in an electrical shock, burn, or electrocution.

When the HIU is permanently connected to the 230VAC installation, a switch or circuit-breaker must be included in the installation as the means for disconnection. The switch or circuit-breaker must be suitably located next to the appliance and easily reached. The switch or circuit-breaker must be marked as the disconnecting device for the equipment.

4.1 Danger of Short-Circuit

When connecting the cables ensure that no cable pieces fall inside the control panel. Unless otherwise stated, all HIU's should be connected to a mains 230V 50Hz Supply fused at 3 Amps. All electrical connections with the HIU control panel are clearly marked as follows:

L = Live 230V

N = Neutral

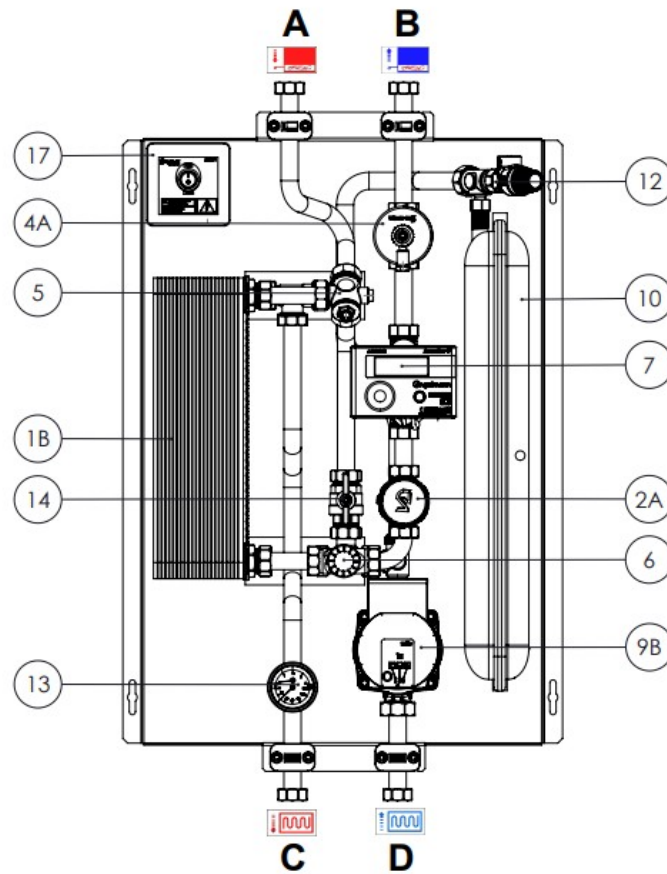
E = Earth 

PE = Protective Earth

Any additional mains cable should comply fully with the current I.E.E. wiring regulations. It must have a minimum section of 1.5mm² and be capable of withstanding a minimum of 90°C.

5 Specifications

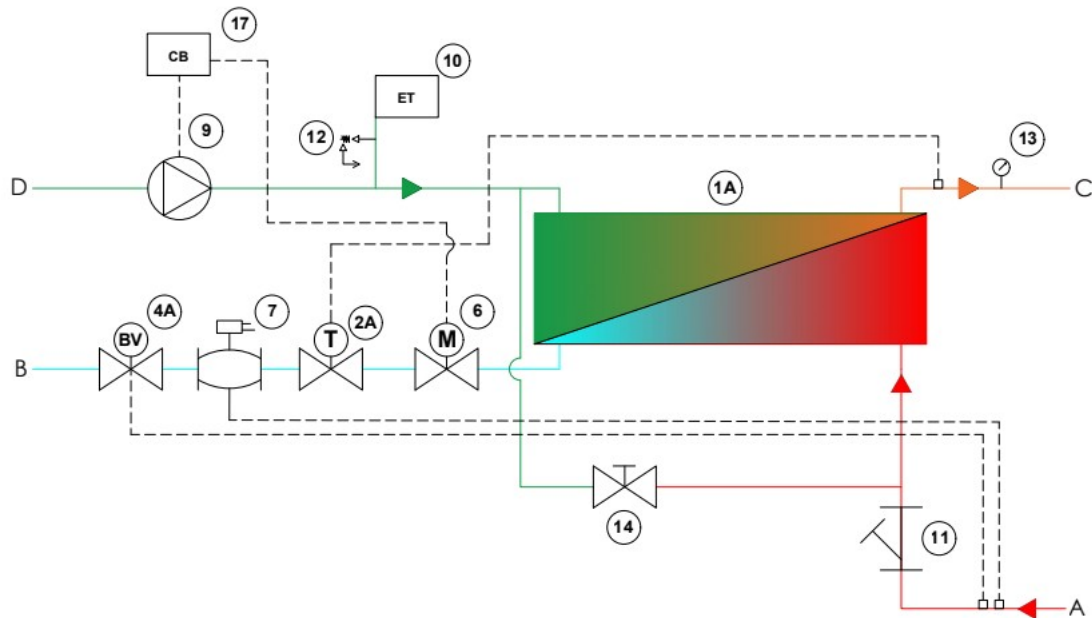
5.1 Component List



- 1A Heat Exchanger (DHW)
- 2A Thermostatic Valve (DHW)
- 4A Differential Pressure Controller
- 07 Space for the Calorimeter (Heat Meter)
- 14 Butterfly Valve
- 06 Zon Valve (Suitable with Thermal Actuator)
- 05 Strainer
- 13 Thermomanometer
- 12 Safety Valve
- 10 Expansion Vessel
- 9 Circulation Pump
- 17 Junction Box

5 Specifications

5.2 Flow Diagram

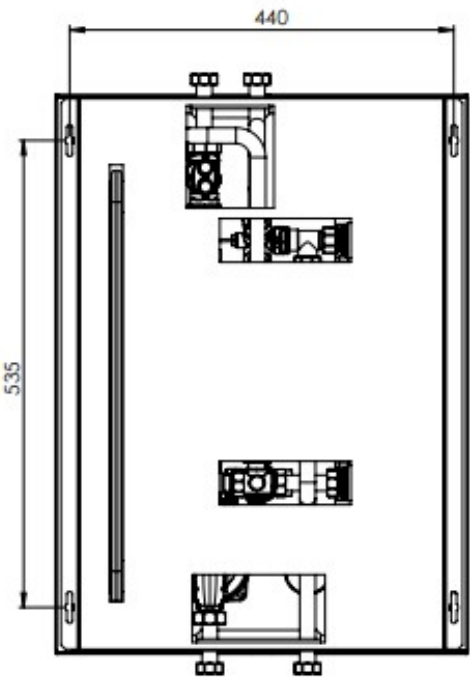


- A — DHS - District Heating Supply
- B — DHR - District Heating Return
- C — DHS - Space Heating Supply
- D — DHR - Space Heating Return

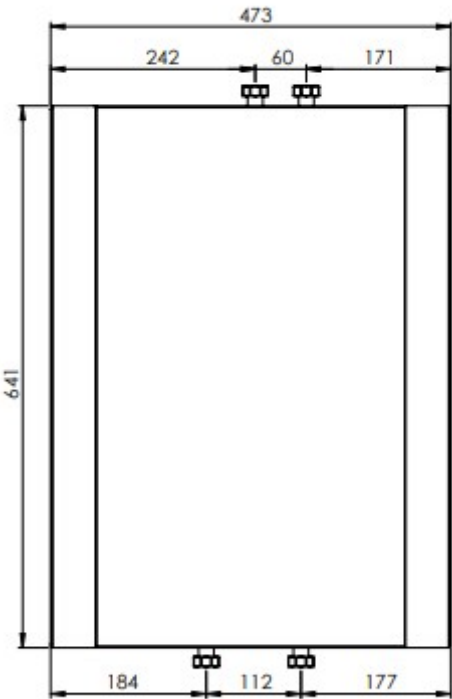
5 Specifications

5.3 Dimensions

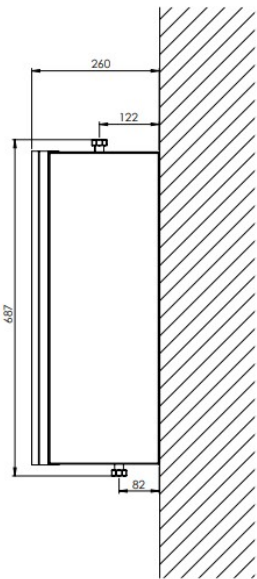
Back View



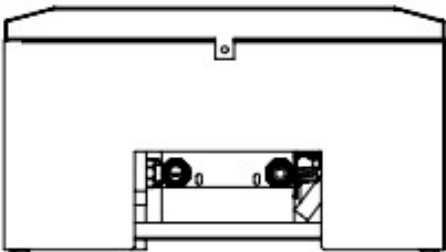
Front View



Wall Mounted View



Bottom View



5 Specifications

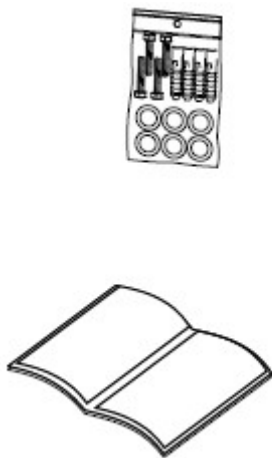
5.4 Technical Data

Description	Data
Nominal primary supply temperature	80°C
Maximum primary supply temperature	85°C
Minimum primary supply temperature	55°C *
Nominal DHW supply temperature	45°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)	250 kPa
Pressure class DH circuit	PN10
Pressure class CH circuit (3 bar safety valve)	PN10
Pressure class DHW circuit	PN10
CH Maximum working pressure	2.5 Bar
Casing width	473mm
Casing height	641mm
Casing depth	260mm
Casing Material	Metal case with Insulation
Weight	22
Electrical supply info	230V 50Hz
Fuse ratings	3 Amp

* Minimum required DH supply temperature is DHW setpoint + 5°C with a minimum of 45°C.

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

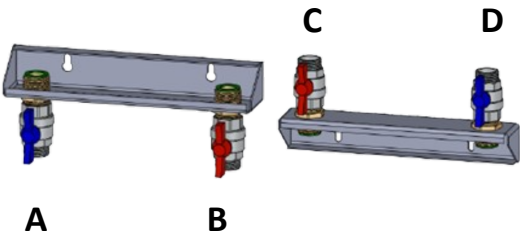
6 Installations



Additional Items Required



Connections



- A — DHS - District Heating Supply
- B — DHR - District Heating Return
- C — DHS - Space Heating Supply
- D — DHR - Space Heating Return

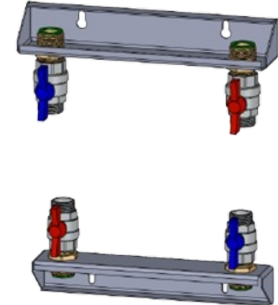
6 Installations

6.1 Mounting to the Wall

The wall needs to be strong enough to support the HIU. If the wall is of drywall construction make sure that there is a board installed (e.g. plywood, min. 18mm) to support the structure, which is strong enough to hold the HIU. Use a 4mm drill bit (at least 40mm depth for the wall plugs).

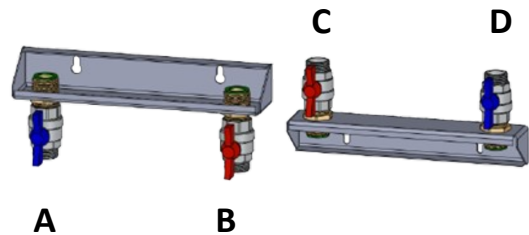
If the wall is of concrete or brick construction use a 10mm drill bit (at least 60mm depth for the wall plugs).

The PPB (Pre-Plumbing Brackets) requires 6 fixing screws, the HIU requires 4 fixing screws.



6.2 Flushing the System

Before mounting the HIU and connecting it to the PPB all pipework that is to be connected must be thoroughly cleaned and flushed out. Any debris or flux that could collect in the narrow channels of the heat exchangers will be difficult to remove once they are installed. Any remaining debris and flux may cause serious corrosion problems, as well as restricting flow and reducing the efficiency of the HIU. Use the flushing by-pass (optional accessory) and connect it to the PPB (C-D).



7 Service

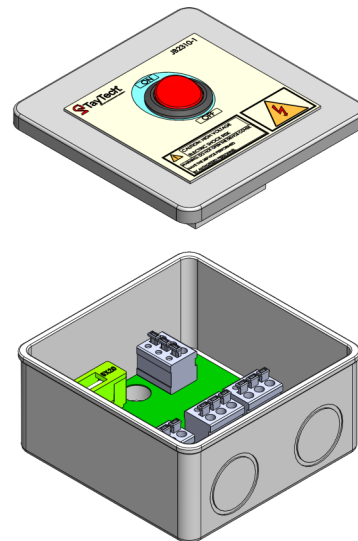
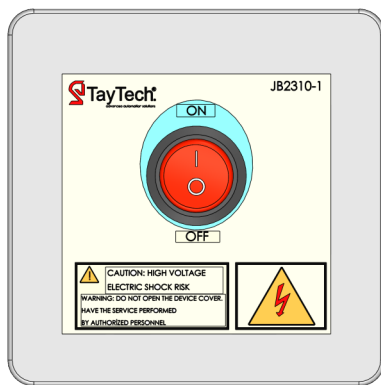
7.1 Power Supply



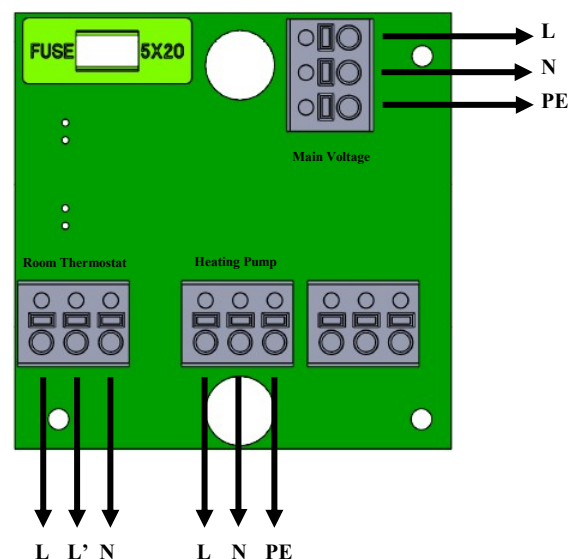
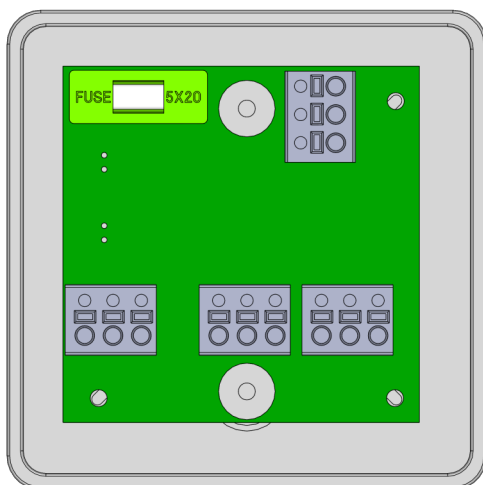
The HIU is equipped with an electric connection box that converts the 230VAC power supply to 24 VDC and powers the equipped SH pump and optional DHW pump. It also houses the fuse of the unit.

CAUTION!

The HIU uses electrical component (230VAC). Touching these components can result in an electrical shock, burn, or electrocution. The casing shall only be opened by authorised personnel when the power supply is cut off



JB2310-1 CONNECTION



7 Service

7.2 Circulation Pump (Optional)

- The pump offers **three control modes: constant speed (I–III), variable differential pressure ($\Delta p-v$), and constant differential pressure ($\Delta p-c$)**.
- **$\Delta p-v$ (Variable pressure)**: Automatically decreases the pressure as the flow rate increases.
- **$\Delta p-c$ (Constant pressure)**: Maintains a constant pressure regardless of changes in system flow.
- **n-const (Constant speed)**: Operates at a fixed speed selected by the user.
- Each mode provides **three performance curves** (I, II, III), giving a total of 3 modes $\times$ 3 settings.
- A **single push-button** allows selection of mode and curve; short presses change the setting, long presses activate functions such as venting, manual restart, lock mode, or reset to factory defaults.

LED indicators:

Green LED shows normal operation or flashes to indicate a fault.

Yellow LEDs (typically four) display the selected control mode and performance curve.

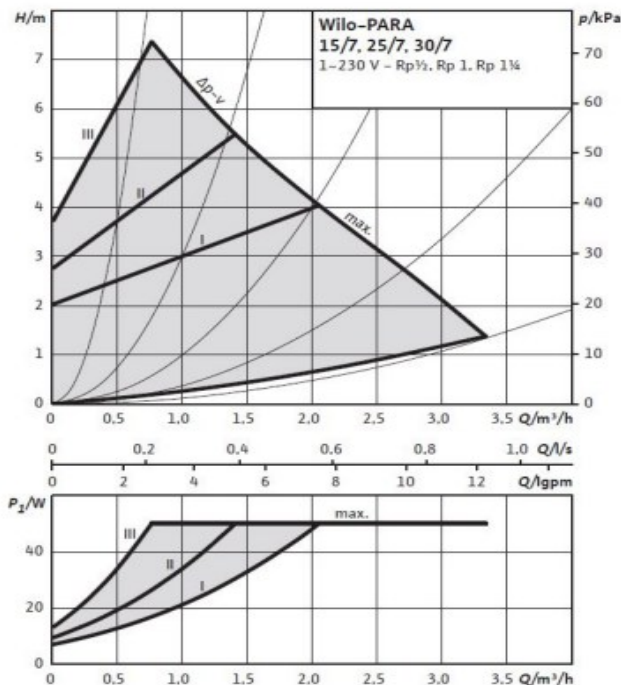


Settings

The Wilo Para 7 circulator pump offers selectable operating modes via a single push-button interface, enabling constant speed, variable differential pressure ($\Delta p-v$), or constant differential pressure ($\Delta p-c$) control, each with multiple performance curves. Operating parameters are indicated through a combination of green and yellow LEDs, and settings are stored in non-volatile memory. Additional long-press functions allow commissioning and service operations such as venting, manual restart, and lock mode, ensuring both flexibility and operational safety in hydronic systems.

7 Service

7.3 Performance View



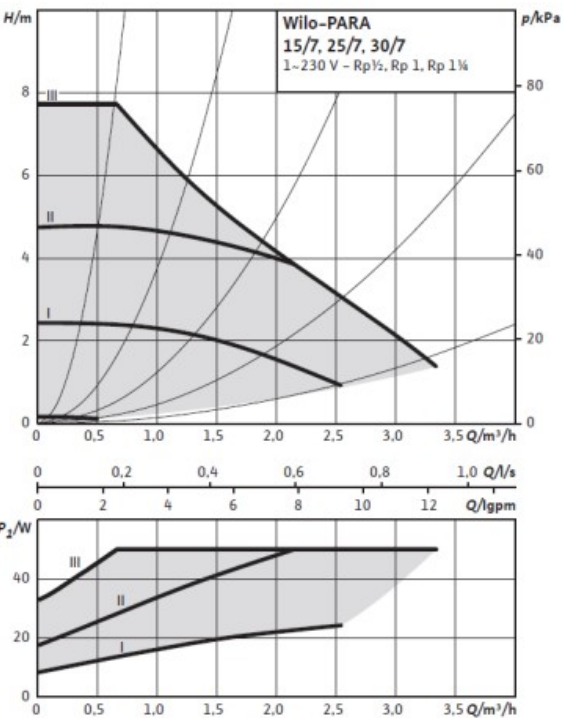
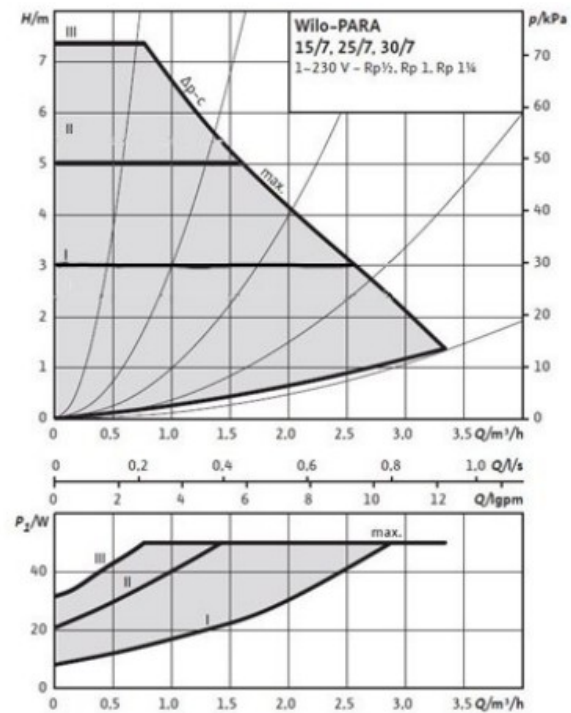
$\Delta p-v$ (Variable Pressure Mode)



$\Delta p-c$ (Constant Pressure Mode)



n-const (Constant Speed Mode)



8 Declaration Of Conformity



DECLARATION OF CONFORMITY

Taytech Otomasyon ve Bilisim Teknolojileri

İnönü Mahallesi, Atatürk Blv. No:7/2 41400 Gebze Plastikçiler
O.S.B Gebze / Kocaeli

We, Taytech Otomasyon ve Bilisim Teknolojileri, declare under our sole responsibility that the product;

Product Name: Indirect ThermoHexa-SH

to which this declaration relates is in conformity with the following EU Directives:

Machinery Directive 2006/42/EG

Low Voltage Directive 2014/35/EU

Electromagnetic Compatibility Directive 2014/30/EU

using the provisions set in the following standards, insofar as they are relevant:

EN 60335-1 : 2012-10

EN 60335-2-51

EN 55014-1&2

EN 60730-1

EN 61000-3

Date and Place of Issue

November 12, 2025 Kocaeli

Name, position and signature of authorized person

Cenk ŞEN
Electromechanical Group Leader

Seyrani AKTAŞ
Deputy of General Manager

NOTES

[illegible]

NOTES

[illegible]

NOTES

[illegible]