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12A THE TIEMME INDIRECT METERING SYSTEM

A centralized heating system, on vertical risers, allows every individual dwelling to regulate their temperature autonomous. To quantify usage and divide the expenditure in proportion to how much each actually uses (voluntary consumption), TIEMME proposes the installation of a specific instrument, the HEAT COST ALLOCATOR.

WHAT IS A HEAT COST ALLOCATOR?
A heat cost allocator is an electronic heat meter that, installed on every single radiator body, allows it to monitor usage and share the data via radio. Installation is very simple and with aid of specialized equipment, the process is quick and does not require plastering or wiring.

WHAT DOES IT REQUIRE?
All the radiant bodies must be equipped with a Tiemme thermostatic kit which is made up of a valve, lockshield valve and thermostatic head (for regulating ambient temperature). The valve stops the flow of hot water from reaching the required temperature and reopens whenever necessary, reducing the operation of the generator with consequent energy saving. With the goal of better managing variations in flow rate, preventing the associated hisses and noises that can manifest, the installation within the central heating system of suitable balancing/bypass valves and a circulation pump is advisable.

HOW IS CONSUMPTION DIVIDED?
The legislation UNI 10200 “Heating systems - allocation of heating costs” supplies the chief instructions for the allocation of costs on the basis of the heat consumption of each utility on centralized heating and water production systems. The heat voluntarily drawn down by apartment buildings should be billed by consumption. The heat drawn down involuntarily (eg for communal areas, or dispersed along the distribution network) should be divided on the basis of heating thousandths.

HOW DOES THE READING WORK?
The usage data reading is carried out without accessing the individual dwelling units and therefore without causing disruption to apartment buildings. Data draws a summary picture of usage metering thanks to which you get to the right allocation of heating costs.
Data acquisition may occur via different methods:

- **Walk-by:** via a device carried by personnel responsible for carrying out readings;
- **Centralized:** via installation within the apartment building of a specific device for receipt and archiving of usage data.

For further details refer to the section “DATA COLLECTION AND READING SYSTEMS” within this catalog.

BENEFITS OF HEAT COST ALLOCATION:

- Money saving;
- Comfort: adjust according to your needs
- Fairness: only pay for what you use;
- Protect the environment: reduced consumption of fossil fuels and reduced CO_2 emissions
- Investment: an economically autonomous heating system = added value to your home
- Tax credit for the expense incurred;
- VAT subsidy in the case of building renovation;
- Safety: use of a single generator means set periodic checks
- Energy efficiency: for the same amount of fuel, a centralized boiler supplies more heat than all the individual autonomous boilers put together;
- Switch-on schedule: each user can freely manage their own system.

Heat cost allocators indirectly measure the usage of every heating body (radiators), via temperature tracking of heating body on which they are installed and the ambient temperature.
Through the proportionality parameters with thermal emission in the room, once the power of the installed radiator is noted, consumption can be determined.

A single dwelling unit's consumption can be derived in proportion to the values measured by the heat cost allocators present in all the other dwelling units that make up the apartment building.

Heat cost allocators are equipped with a display for local reading and provided with a 868 MHz radio in line with WIRELESS M-Bus (EN 13757) standards for remote communication with a suitable device for gathering data (either walk-by or centralized).

STRENGTHS

- Equipped with two sensors for the tracking of heating body and room temperature
- Battery life 11+ 1 years
- Equipped with tamper-proof seal
- Complete with a radio sensor for wireless communication.
- In line with regulation EN 834

PRODUCT RANGE

6580C

Heat cost allocator for centralized systems with riser distribution.

M-Bus Wireless

Code	Type	Price €	Unit/Box
651 0286	Standard		1/40

6580CS

Heat cost allocator for centralized systems with riser distribution With distance probe.

M-Bus Wireless

Code	Type	Price	Unit/Box
651 0287	With remote sensor.		1/40

ACCESSORIES AND SPARE PARTS

6561TUSB

USB optical head for programming or parameter modification on heat cost allocators and meters

It also includes pairing to programming software for installation on PC. For more information contact the Tiemme Systems Department.

Code	Type	Price	Unit/Box
651 0051	For 6580C - 6580CS		1/10

ADVANTAGES / STRENGTHS

Adjustable flow rate
The thermostatic valves series 331 and 332 are equipped with a fixed orifice water flow rate adjustment element which, via a six-position selector, allows choosing the correct flow rate to get all the system elements working correctly.

Simplified calibration
The screw adjustment method has been designed to make the installer's job easy.
By working on the adjustment ring, without the aid of tools, it is possible to vary the valve flow rate by enlisting the help of the easily readable indicator located on the top of the valve.

Energy saving
The ability to accurately adjust every single utility and mount a thermostatic control means not only having the right ambient comfort level but also the right energy consumption level to get the fluid circulating, resulting in reducing energy usage.

Full range
Tiemme presents a new series of thermostatically-controlled valves with pre-setting included in the models and sizes. In fact, the range includes straight and angled valves with iron pipe fitting and male fitting for copper/PEX/multi-layer pipe adapters.

INSTRUCTIONS FOR CORRECT CALIBRATION

1

Unscrew hood from valve body.

2

Turn the numbered handle until the number corresponding with the desired Kv (see table) is aligned with the reference notch on the valve body.

KV TABLE

Position	Kv (m³/h)
1	0.09
2	0.14
3	0.20
4	0.30
5	0.55
6	0.80

12c THERMOSTATICALLY-CONTROLLED VALVE KIT WITH PRE-SETTING

Thermostatically-controlled valve with pre-setting, thermostatic head and “EXCEL” lockshield valve (version with o-ring)

331HKIT

Three-piece kit comprising: angled valve THERMOSTATICALLY-CONTROLLED WITH PRE-SETTING, thermostatic head, EXCEL angled lockshield valve with fitting for iron pipe

PRE-SETTING

Code	Type	Price €	Unit/Box
331 0036	G 3/8”		1/10
331 0037	G 1/2”		1/10
331 0045	G 3/4”		1/10

331GKIT

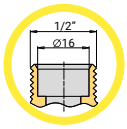
Three-piece kit comprising: straight valve THERMOSTATICALLY-CONTROLLED WITH PRE-SETTING, thermostatic head, EXCEL straight lockshield valve with fitting for iron pipe

PRE-SETTING

Code	Type	Price €	Unit/Box
331 0038	G 3/8”		1/10
331 0039	G 1/2”		1/10
331 0044	G 3/4”		1/10

332HKIT

Three-piece kit comprising: angled valve THERMOSTATICALLY-CONTROLLED WITH PRE-SETTING, thermostatic head, EXCEL angled lockshield valve with fitting for copper, PEX and multilayer pipe

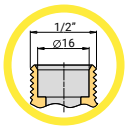


PRE-SETTING

Code	Type	Fittings	Price €	Unit/Box
331 0040	G 3/8”	1/2” (ø16)		1/10
331 0041	G 1/2”	1/2” (ø16)		1/10

332GKIT

Three-piece kit comprising: straight valve THERMOSTATICALLY-CONTROLLED WITH PRE-SETTING, thermostatic head, EXCEL straight lockshield valve with fitting for copper, PEX and multilayer pipe



PRE-SETTING

Code	Type	Fittings	Price €	Unit/Box
331 0042	G 3/8”	1/2” (ø16)		1/10
331 0043	G 1/2”	1/2” (ø16)		1/10

Thermostatically-controlled valve, thermostatic head and “EXCEL” lockshield valve (version with o-ring)

3308KIT04R

Three-piece kit comprising: THERMOSTATICALLY-CONTROLLED angled valve, thermostatic head, EXCEL angled lockshield valve with fitting for iron pipe

Code	Type	Price €	Unit/Box
330 0141	G 3/8”		1/10
330 0142	G 1/2”		1/10
330 0150	G 3/4”		1/10

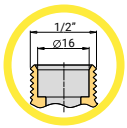
3307KIT04R

Three-piece kit comprising: THERMOSTATICALLY-CONTROLLED straight valve, thermostatic head, EXCEL straight lockshield valve with fitting for iron pipe

Code	Type	Price €	Unit/Box
330 0143	G 3/8”		1/10
330 0144	G 1/2”		1/10
330 0151	G 3/4”		1/10

3303KIT04R

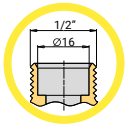
Three-piece kit comprising: THERMOSTATICALLY-CONTROLLED angled valve, thermostatic head, EXCEL angled lockshield valve with fitting for copper, PEX and multilayer pipe



Code	Type	Fittings	Price €	Unit/Box
330 0145	G 3/8”	1/2” (ø16)		1/10
330 0146	G 1/2”	1/2” (ø16)		1/10

3302KIT04R

Three-piece kit comprising: THERMOSTATICALLY-CONTROLLED straight valve, thermostatic head, EXCEL straight lockshield valve with fitting for copper, PEX and multilayer pipe



Code	Type	Fittings	Price €	Unit/Box
330 0147	G 3/8”	1/2” (ø16)		1/10
330 0148	G 1/2”	1/2” (ø16)		1/10

Thermostatically-controlled valve, thermostatic head and lockshield valve

3308KIT03

Three-piece kit comprising: THERMOSTATICALLY-CONTROLLED angled valve, thermostatic head, angled lockshield valve with fitting for iron pipe

Code	Type	Price €	Unit/Box
330 0133	G 3/8”		1/10
330 0134	G 1/2”		1/10
330 0166	G 3/4”		1/10

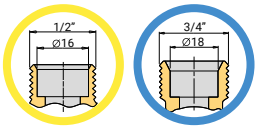
3307KIT03

Three-piece kit comprising: THERMOSTATICALLY-CONTROLLED straight valve, thermostatic head, straight lockshield valve with fitting for iron pipe

Code	Type	Price €	Unit/Box
330 0135	G 3/8”		1/10
330 0136	G 1/2”		1/10
330 0167	G 3/4”		1/10

3303KIT03

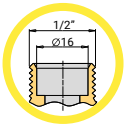
Three-piece kit comprising: THERMOSTATICALLY-CONTROLLED angled valve, thermostatic head, angled lockshield valve with fitting for copper, PEX and multilayer pipe



Code	Type	Fittings	Price €	Unit/Box
330 0137	G 3/8”	1/2” (ø16)		1/10
330 0138	G 1/2”	1/2” (ø16)		1/10
330 0206	G 1/2”	3/4” (ø18)		1/10

3302KIT03

Three-piece kit comprising: THERMOSTATICALLY-CONTROLLED straight valve, thermostatic head, straight lockshield valve with fitting for copper, PEX and multilayer pipe



Code	Type	Fittings	Price €	Unit/Box
330 0139	G 3/8”	1/2” (ø16)		1/10
330 0140	G 1/2”	1/2” (ø16)		1/10

9553- 9553C

Thermostatic controls art. 9553 - 9553C meet the requirements of the Italian Ministry of Economy and Finance Decree dated 19 February 2007 and decree law 6 Dicembre 2011 and subsequent.

ADVANTAGES / STRENGTHS

Quality materials
The Tiemme thermostatic control is been produced with high-grade materials and with superior quality mechanics and TECHNICAL SPECIFICATIONS.
Pleasant feel and durability are only two of the elements that characterize the product.

Ergonomic, functional design
Whether in public or private spaces, the clean lines guarantee perfect compatibility between product and placement. The minimal design has been optimized to offer the best in terms of speed of installation and ease of use. Customization and indication of use values are minimal and brought about in such a way as to help, not confuse.

Italian product with a German core
The production process takes place entirely within Tiemme's Italian plants, where the perfect operation of every product is checked and guaranteed before dispatch. Only as far as regards the choice of sensor element we have looked to German technology, perennially at the cutting edge for this type of component.

Intelligent temperature limiting
The control 9553 offers the option of limiting the usage temperature to predefined values.
By inserting the special clips (available on request) it is possible to define a limited range of values or to limit the temperature to a precise value.

9553

Thermostatic head with built-in liquid sensor temperature range 6-28°C

Code	Type	Price €	Unit/Box
955 0025	M30 x 1.5		1/30

9553C

Chrome-plated thermostatic head with built-in liquid sensor. Temperature range 6-28°C

Code	Type	Price €	Unit/Box
955 0026	M30 x 1.5		1/30

9558

Thermostatic head with remote liquid sensor. Capillary length 2 m

Code	Type	Price €	Unit/Box
955 0003	M30 x 1.5		1/15

9551

Thermostatic head with remote control. Capillary length 2 m

Code	Type	Price €	Unit/Box
955 0029	M30 x 1.5		1/5

9553INS

Pair of inserts for temperature limitation for thermostatic head 9553/9553C

Code	Type	Price €	Unit/Box
955 0037	-		5/50

9553AM2

Vandal proof and anti-tampering kit for thermostatic head 9553/9553C

Code	Type	Price €	Unit/Box
955 0033	-		20/80

9553CHT

Key for vandal proof and anti-tampering thermostatic head kit 9553/9553C

Code	Type	Price €	Unit/Box
955 0038	-		1/1

9553AM1

Six anti-vandal and anti-tampering knobs for thermostatic head 9553/9553C including tool

Code	Type	Price €	Unit/Box
955 0036	-		1/4

9556

Programmable electronic thermostatic head. Temperature range 8-28°C

Code	Type	Price €	Unit/Box
955 0015	M30 x 1.5		1/5

9556USB

USB programming key for electronic thermostatic head

Code	Type	Price €	Unit/Box
955 0017	-		10/40

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