

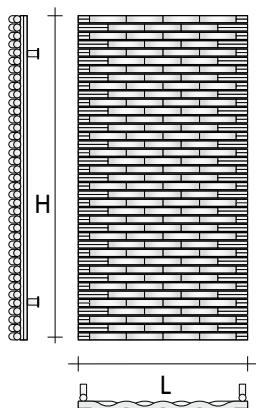
TRAME HORIZONTAL

Radiator composed of 14, 20, 28 mm diameter horizontal steel elements fusion welded with 28 mm diameter manifolds

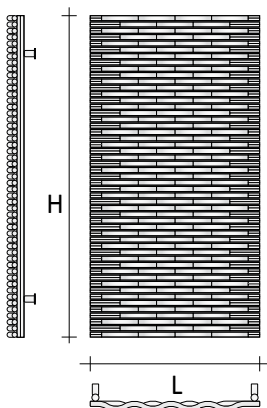
ORDER EXAMPLE To correctly order this model follow the example specified below:

PRODUCT	TRO20#1830015 OR1 ST 9010 R12
TRO20#1830015	Article code composed of Model, Height (1830) and Number of elements (015)
OR1	Connector code found in the table here below
ST	Standard Support code found in the table here below
9010	Colour code to be checked in the Tubes Colour Chart
R12	Connection code that defines the type of union for copper pipes or multi-layer pipes found herein at page 276
ACCESSORIES	
Cod. GVR	One way Remote Valve Assembly, CHROME finish
Cod. GVRCh*	One way Remote Valve Assembly, COLOUR finish*
* Specify the color code, e.g.: 9010, after checking the Tubes Colour Chart	

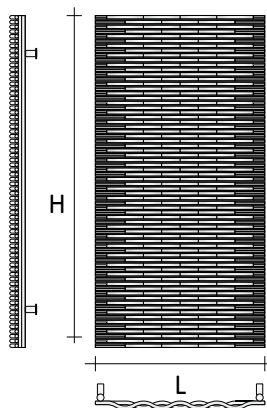
TRAME 28



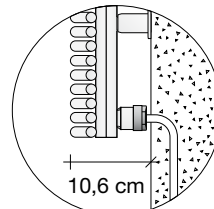
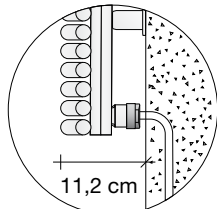
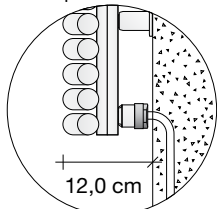
TRAME 20



TRAME 14



Wiring diagram of radiator to the Remote Valve Assembly (GVR) in the standard OR1 configuration with connectors on the lower part



Standard REAR CONNECTORS

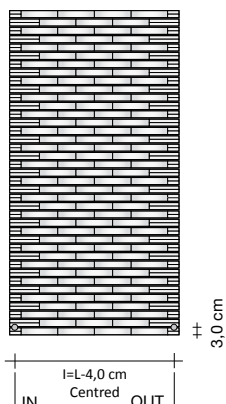
They enable connection to the system via Remote Valve Assembly (GVR) which are supplied as an accessory. This type of connectors must be specified when placing the order, they are supplied WITHOUT an additional price charge

EXTERNAL CONNECTORS – standard type

They enable connection to the system via Standard Valve and Lockshield which are supplied as an accessory. This type of connectors must be specified when placing the order, they are supplied WITH an additional price charge of €

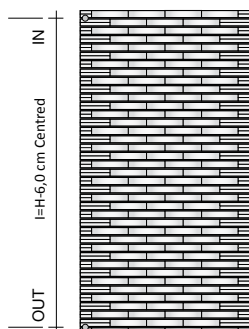
connector **OR1**

standard connector always supplied, if not otherwise specified in the order



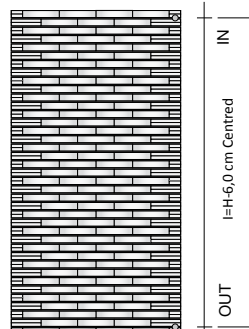
connector **RS2** on the left

supplied on request



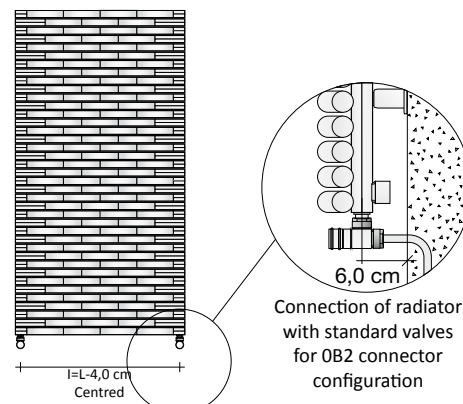
connector **RD2** on the right

supplied on request



EXTERNAL connector **OB2**

supplied on request



ADDITIONAL COLOUR CHARGE (see the official Tubes Colour Chart)

Additional colour charges are calculated over the Pure white price (Cat. C0), for the other categories the additional charges herein below are applicable: Category C1 and C2 +10% - C3 Category +20% - RAL not included in the colour chart +30% - According to samples : Request feasibility and cost estimate. Colours not available: GRCC.

TRAME HORIZONTAL

Radiator composed of 14, 20, 28 mm diameter horizontal steel elements fusion welded with 28 mm diameter manifolds

TRAME 14

Width		52,5			67			96			125			154		
N° elements	Height (cm)	Watts ΔT 50°C	Watts ΔT 30°C	Price (€)	Watts ΔT 50°C	Watts ΔT 30°C	Price (€)	Watts ΔT 50°C	Watts ΔT 30°C	Price (€)	Watts ΔT 50°C	Watts ΔT 30°C	Price (€)	Watts ΔT 50°C	Watts ΔT 30°C	Price (€)
21	40,0	342	186		437	237		626	340		815	442		1004	545	
31	59,0	464	255		592	325		849	466		1105	607		1361	747	
43	81,8	606	336		773	428		1108	614		1443	799		1777	984	
47	89,4	653	361		883	489		1194	661		1555	861		1915	1060	
53	100,8	723	400		923	510		1323	732		1723	953		2122	1174	
69	131,2	914	503		1166	641		1671	919							
79	150,2	1036	564		1322	720		1894	1031							
89	169,2	1161	626		1481	798										
95	180,6	1237	662		1579	845										
103	195,8	1341	712		1712	909										

TRAME 20

Width		52,5			67			96			125			154			183			197,5		
N° elements	Height (cm)	Watts ΔT 50°C	Watts ΔT 30°C	Price (€)	Watts ΔT 50°C	Watts ΔT 30°C	Price (€)	Watts ΔT 50°C	Watts ΔT 30°C	Price (€)	Watts ΔT 50°C	Watts ΔT 30°C	Price (€)	Watts ΔT 50°C	Watts ΔT 30°C	Price (€)	Watts ΔT 50°C	Watts ΔT 30°C	Price (€)	Watts ΔT 50°C	Watts ΔT 30°C	Price (€)
17	42,0	339	184		432	235		619	336		806	438		993	540		1180	641		1254	681	
25	62,0	479	260		611	332		876	476		1141	620		1405	763		1670	907		1788	971	
33	82,0	614	334		784	426		1123	611		1462	795		1801	979							
37	92,0	680	371		868	474		1243	679		1619	884		1994	1089							
41	102,0	745	408		950	521		1362	747		1773	972		2185	1198							
51	127,0	903	498		1153	636		1652	911													
61	152,0	1057	576		1349	735		1933	1053													
69	172,0	1177	635		1502	810																
73	182,0	1236	663		1578	847																
77	192,0	1295	692		1653	883																

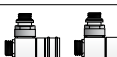


TRAME 28

Width		52,5			67			96			125			154			183			197,5		
N° elements	Height (cm)	Watts ΔT 50°C	Watts ΔT 30°C	Price (€)	Watts ΔT 50°C	Watts ΔT 30°C	Price (€)	Watts ΔT 50°C	Watts ΔT 30°C	Price (€)	Watts ΔT 50°C	Watts ΔT 30°C	Price (€)	Watts ΔT 50°C	Watts ΔT 30°C	Price (€)	Watts ΔT 50°C	Watts ΔT 30°C	Price (€)	Watts ΔT 50°C	Watts ΔT 30°C	Price (€)
13	42,4	343	186		438	237		627	339		816	442		1006	544		1195	647		1280	693	
19	62,2	475	254		606	324		869	465		1131	605		1394	746		1656	886		1774	949	
25	82,0	604	329		770	419		1104	601		1437	782		1770	963							
29	95,2	688	376		878	479		1258	687		1638	895		2018	1102							
39	128,2	897	492		1145	628		1640	899		2136	1171										
47	154,6	1064	576		1358	735		1946	1054													
51	167,8	1148	618		1465	788																
55	181,0	1232	659		1573	841																
59	194,2	1317	700		1681	893																

REMOTE VALVE ASSEMBLY

Code	Description	Finishes	Price (€)
GVR#	RECESSED valve and lockshield assembly for remote connection	CHROME	
GVRC#	RECESSED valve and lockshield assembly for remote connection	COLOUR	

Standard VALVES (for Valves and Lockshields, valves that can be fitted with thermostat, Thermostatic valves, or Single pipe, Twin pipe, Stainless steel and thermostatic heads see pages 271 - 272 - 273 - 274 - 275)

Code / Description	Finishes	Price (€)
 Z1TLNR#ANR129010 Paired Valve and Lockshield copper Angle 1/2"	WHITE	
 Z1RAC#R12CRO 2 copper unions diam. 12 mm	CHROME	
 ZRCF# Kit with pipe collars for towel warmers	WHITE	

TRAME VERTICAL

Radiator composed of 20 and 28mm diameter vertical steel elements fusion welded with 28 mm diameter manifolds

ORDER EXAMPLE To correctly order this model follow the example specified below:

PRODUCT

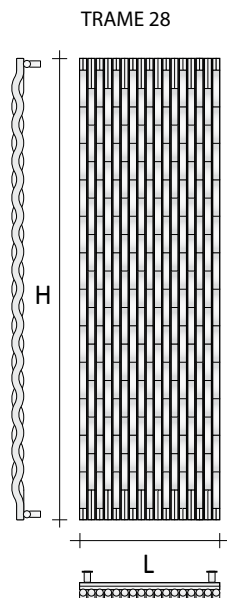
TRV28#1830015
R05
ST
9010
R12

TRV28#1830015 R05 ST 9010 R12

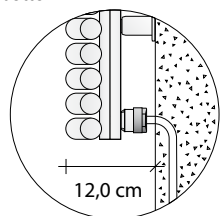
Article code composed of Model, Height (1830) and Number of elements (015)
Connector code found in the table here below
Standard Support code found in the table here below
Colour code to be checked in the Tubes Colour Chart
Connection code that defines the type of union for copper pipes or multi-layer pipes found herein at page 276

ACCESSORIES

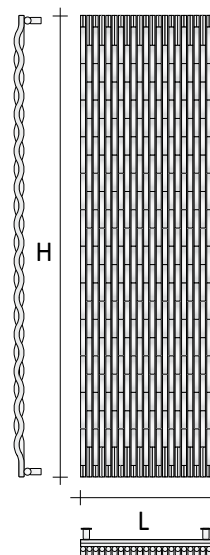
Cod. GVR One way Remote Valve Assembly, CHROME finish
Cod. GVR#* One way Remote Valve Assembly, COLOUR finish*
* Specify the color code, e.g.: 9010, after checking the Tubes Colour Chart



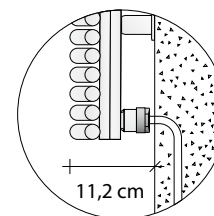
Connection of radiator to the Remote Valve Assembly (GVR) in standard R05 configuration with connectors at the bottom



TRAME 20



Connection of radiator to the Remote Valve Assembly (GVR) in standard R05 configuration with connectors at the bottom



REAR CONNECTORS

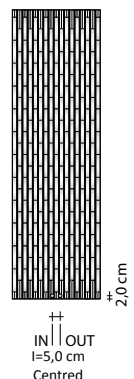
They enable connection to the system via Remote Valve Assembly (GVR) which are supplied as an accessory. This type of connectors must be specified when placing the order, they are supplied WITHOUT an additional price charge

EXTERNAL CONNECTORS – standard type

They enable connection to the system via Standard Valve and Lockshield which are supplied as an accessory. This type of connectors must be specified when placing the order, they are supplied WITH an additional price charge of €

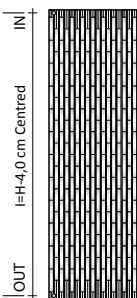
connector R05

standard connector always supplied, if not otherwise specified in the order



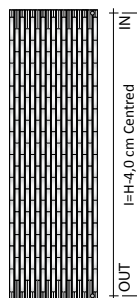
connector RS1

left side on the rear supplied on request



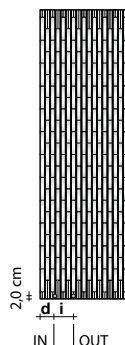
connector RD1

right side on the rear supplied on request



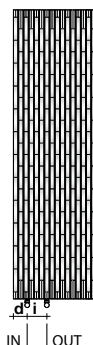
connector R2M

Rear custom made supplied on request



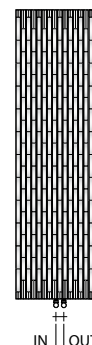
connector B2M

Standard custom made supplied on request



connector 0B2

Standard Connection at bottom - CUSTOM MADE



R2M Connection at bottom - CUSTOM MADE

in this case you need to specify "d" and "i" which must comply to the following:
i min.=5 cm
d min.=2 cm

ADDITIONAL COLOUR CHARGE (see the official Tubes Colour Chart)

Additional colour charges are calculated over the Pure white price (Cat. C0), for the other categories the additional charges herein below are applicable: Category C1 and C2 +10% - C3 Category +20% - RAL not included in the colour chart +30%. According to samples : Request feasibility and cost estimate. Colours not available: GRGR.

TRAME VERTICAL

Radiator composed of 20 and 28mm diameter vertical steel elements fusion welded with 28 mm diameter manifolds

TRAME 20

Height		96			125			154			183			197,5		
N° elements	Width (cm)	Watts ΔT 50°C	Watts ΔT 30°C	Price (€)	Watts ΔT 50°C	Watts ΔT 30°C	Price (€)	Watts ΔT 50°C	Watts ΔT 30°C	Price (€)	Watts ΔT 50°C	Watts ΔT 30°C	Price (€)	Watts ΔT 50°C	Watts ΔT 30°C	Price (€)
11	27,0	413	210		515	264		606	311		686	351		719	368	
13	32,0	488	248		609	312		717	368		811	415		850	435	
15	37,0	563	286		703	361		827	424		936	479		980	501	
17	42,0	638	324		796	408		937	480		1061	543		1111	568	
19	47,0	713	363		890	457		1047	537		1186	607		1242	635	
21	52,0	789	401		984	505		1158	594		1311	671		1373	702	
23	57,0	863	439		1077	553		1268	650		1435	735		1503	769	
25	62,0	938	477		1171	601		1378	706		1560	799		1634	836	
27	67,0	1013	515		1265	649		1488	763		1685	863		1765	903	
29	72,0	1086	552		1358	697		1599	820		1810	927		1896	970	
31	77,0	1163	591		1452	745		1709	876		1935	991		2026	1036	
33	82,0	1238	630		1546	793										
35	87,0	1313	668		1639	841										
37	92,0	1388	706		1733	889										
39	97,0	1463	744		1827	937										

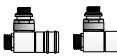


TRAME 28

Height		96			125			154			183			197,5		
N° elements	Width (cm)	Watts ΔT 50°C	Watts ΔT 30°C	Price (€)	Watts ΔT 50°C	Watts ΔT 30°C	Price (€)	Watts ΔT 50°C	Watts ΔT 30°C	Price (€)	Watts ΔT 50°C	Watts ΔT 30°C	Price (€)	Watts ΔT 50°C	Watts ΔT 30°C	Price (€)
9	29,2	432	220		537	273		634	323		724	369		762	389	
11	35,8	528	268		657	334		775	395		885	451		931	475	
13	42,4	625	318		776	395		916	466		1046	533		1101	562	
15	49,0	721	366		895	455		1057	538		1207	615		1270	648	
17	55,6	817	415		1015	516		1198	610		1367	697		1439	734	
19	62,2	913	464		1134	577		1339	682		1528	779		1609	821	
21	68,8	1009	513		1253	638		1480	754		1689	861		1778	907	
23	75,4	1105	562		1373	699		1620	825		1850	943		1947	993	
25	82,0	1201	610		1492	759		1761	897							
27	88,6	1297	659		1612	820		1902	969							
29	95,2	1393	708		1731	881		2043	1040							
31	101,8	1489	757		1850	941		2184	1112							
33	108,4	1585	805		1970	1002		2325	1184							
35	115,0	1682	855		2089	1063		2466	1256							
37	121,6	1778	904		2208	1123		2607	1328							

REMOTE VALVE ASSEMBLY

Code	Description	Finishes	Price (€)
GVR#	RECESSED valve and lockshield assembly for remote connection	CHROME	
GVRC#	RECESSED valve and lockshield assembly for remote connection	COLOUR	

Standard VALVES (for Valves and Lockshields, valves that can be fitted with thermostat, Thermostatic valves, or Single pipe, Twin pipe, Stainless steel and thermostatic heads see pages 271 - 272 - 273 - 274 - 275)

Code / Description	Finishes	Price (€)
 Z1TLNR#ANR129010 Paired Valve and Lockshield copper Angle 1/2"	WHITE	
 Z1RAC#R12CRO 2 copper unions diam. 12 mm	CHROME	
 ZRCF# Kit with pipe collars for towel warmers	WHITE	

ORDER EXAMPLE To correctly order this model follow the example specified below:

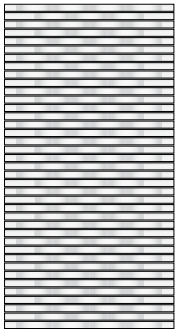
PRODUCT	TRO20E#0525 0430 U1 ST 9010
TRO20E#0525 0430	Article code composed of Model, Width (0525mm) and Height (0430mm)
U1	Resistor code found in the table on the side
ST	Standard Support code, only one support code available for Electric and Mixed version
9010	Colour code to be checked in the Tubes Colour Chart

ACCESSORIES ELECTRIC/MIXED version (only for standard STD resistors)

ZRF004	Kit with WALL type room thermostat (radio frequency)
ZRF007	Kit with WALL type room thermostat (radio frequency) with weekly PROGRAMMING

* Specify the color code, e.g.: 9010, after checking the Tubes Colour Chart*

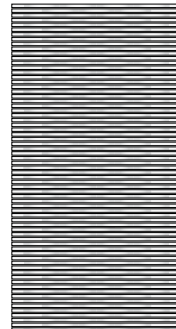
TRAME 28



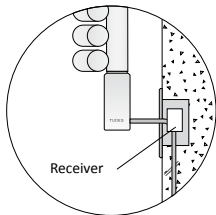
TRAME 20



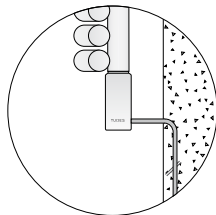
TRAME 14



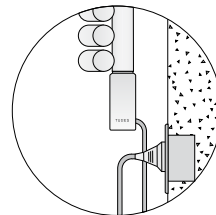
How to carry out connection to the Electric supply



Radio receiver
(supplied with ZRF004 or ZRF007)

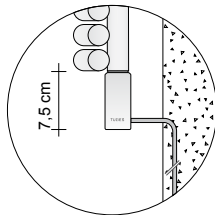
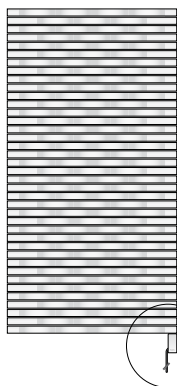


Remote switch (not supplied)

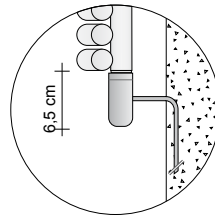
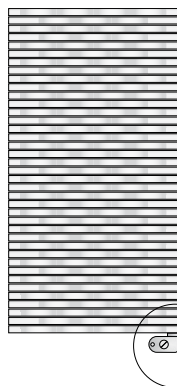


Electric plug not supplied

Electric Standard



Electric with Room Thermostat



ADDITIONAL CHARGES FOR COLOURS AND FINISHES (see the official Tubes Colour Chart)

Additional colour charges are calculated over the Pure white price (Cat. C0), for the other categories the additional charges herein below are applicable: Category C1 and C2 +10% - C3 Category +20% - RAL not included in the colour chart +30% - PLATED finishes: NOT available. Colours not available: GRGR.

TRAME Horizontal Electric

Radiator composed of 14, 20, 28 mm diameter horizontal steel elements fusion welded with 28 mm diameter manifolds

TRAME 14 electric

Code	H (cm)	L (cm)	Edge Cap Colour Code			Electric resistor Watts	Category C0 RAL 9010 (€)
			White	Grey	Chrome*		
TRO14E#05250400	40,0	52,5	U1	V1	Z1*	300	
TRO14E#05250818	81,8	52,5	U2	V2	Z2*	600	
TRO14E#05251312	131,2	52,5	U3	V3	Z3*	900	
TRO14E#05251806	180,6	52,5	U4	V4	Z4*	1200	

* Supplied with price surcharge of € 10.00

TRAME 20 electric

Code	H (cm)	L (cm)	Edge Cap Colour Code			Electric resistor Watts	Category C0 RAL 9010 (€)
			White	Grey	Chrome*		
TRO20E#05250420	42,0	52,5	U1	V1	Z1*	300	
TRO20E#05250820	82,0	52,5	U2	V2	Z2*	600	
TRO20E#05251270	127,0	52,5	U3	V3	Z3*	900	
TRO20E#05251820	182,0	52,5	U4	V4	Z4*	1200	

* Supplied with price surcharge of € 10.00


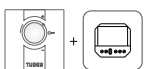
TRAME 28 electric

Code	H (cm)	L (cm)	Edge Cap Colour Code			Electric resistor Watts	Category C0 RAL 9010 (€)
			White	Grey	Chrome*		
TRO28E#05250424	42,4	52,5	U1	V1	Z1*	300	
TRO28E#05250820	82,0	52,5	U2	V2	Z2*	600	
TRO28E#05251282	128,2	52,5	U3	V3	Z3*	900	
TRO28E#05251810	181,0	52,5	U4	V4	Z4*	1200	

* Supplied with price surcharge of € 10.00

ELECTRIC ADJUSTERS

Electrical setting is via the use of the following thermostats that regulate the room temperature by interacting with up to max 5 radiators.

cod. ZRF007	cod. ZRF004	Code	Description	Price** (€)
		ZRF004*	Kit with WALL type room thermostat (radio frequency)	
		ZRF007*	Kit with WALL type room thermostat (radio frequency) with weekly PROGRAMMING	

** The price of the two kits mentioned above includes the wall box radiofrequency receiver that strictly must be installed.