ACF PENSILI

THERMAL FLYWHEEL FOR AIR CONDITIONING / HEATING SYSTEMS

24 - 5.129 litres

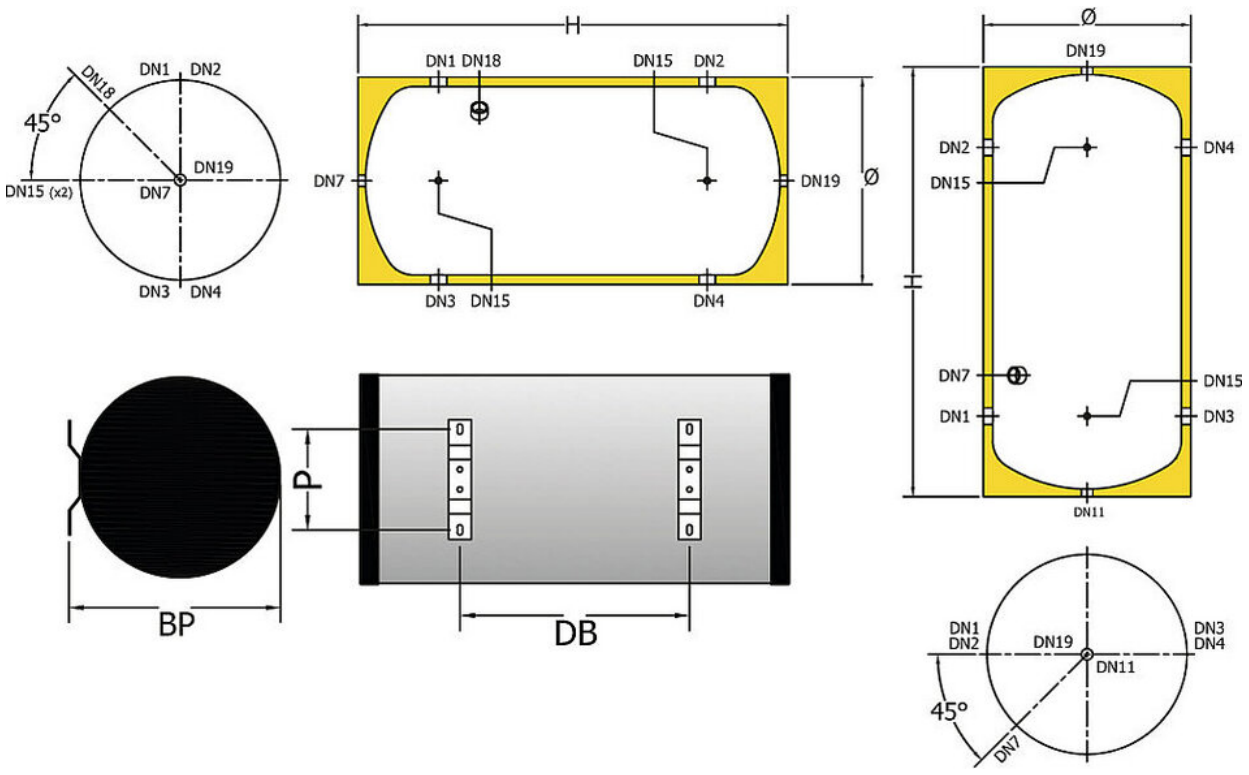
Installations

Use as a thermal flywheel in indoor installations of air conditioning and heating systems to optimize the thermal inertia and increase the volume of chilled/heated water.

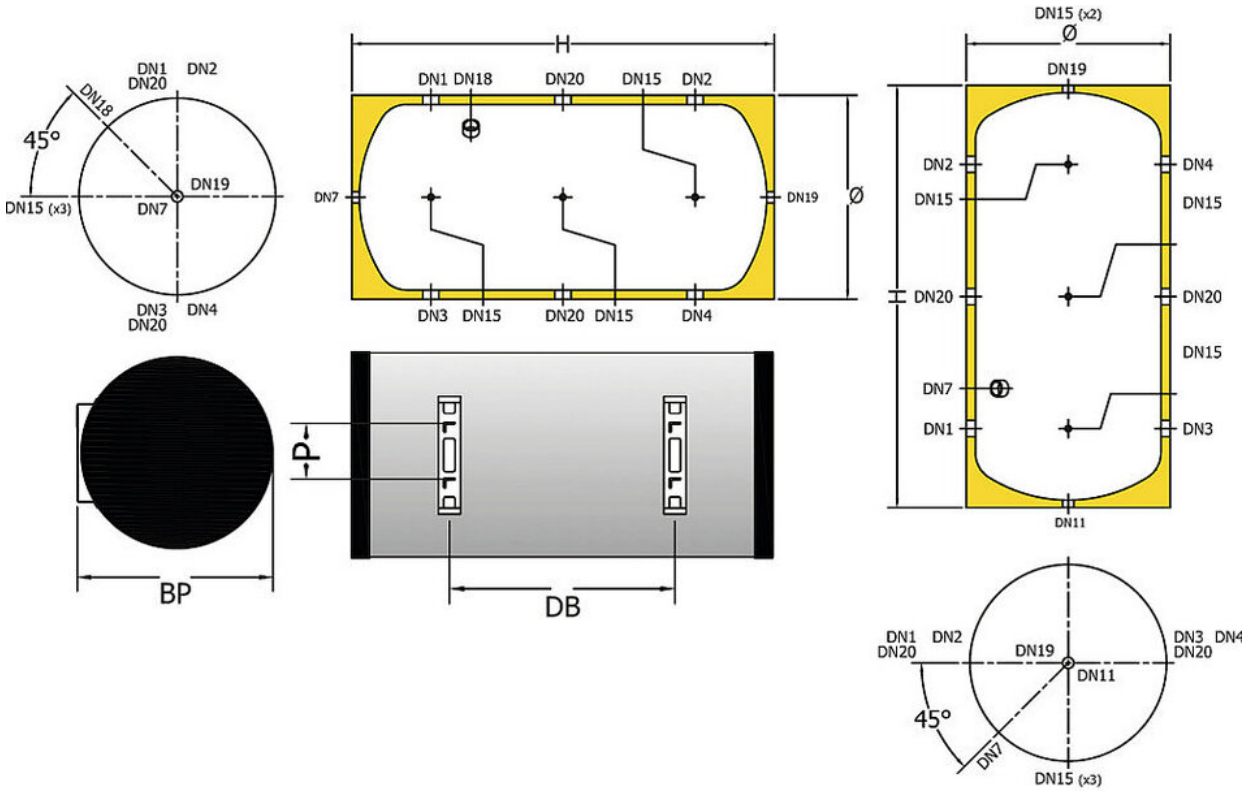
CHARACTERISTICS

(mod. 24 - 100) 10 bar

ACF 24 - 50 P



ACF 100 P



ACF bracket

Keyword

DN	Description
DN1	Flow to source
DN2	Flow from source
DN3	Flow from heating system
DN4	Flow to heating system
DN7	Predisposition for immersion heater
DN11	Drain
DN15	Probe
DN18	Auxiliary connection
DN19	Auxiliary connection
DN20	Auxiliary connection

Model	Code	Energy label	St. loss W	Capacity L	H mm	Ø mm	DB mm	P mm	BP mm
ACF 24 P	A48SL27 GGP50	A	18	24	555	400	230	165	445
ACF 35 P	A48SL31 GGP50	A	21	35	665	400	310	165	445
ACF 50 P	A48SL34 GGP50	A	26	50	880	400	525	165	445
ACF 100 P	A3H0L38 PGP55-	B	43	96	960	510	400	145	535

Pm: pivot measurement | P = Wall-hung models
Wall-hung models

Connection heights (mm)

MODEL	DN1	DN2	DN3	DN4	DN15	DN15	DN15	DN18	DN19	DN20
ACF 24 P	165	395	165	395	215	345	-	-	-	-
ACF 35 P	180	490	180	490	180	490	-	-	-	-
ACF 50 P	180	705	180	705	180	705	-	-	-	-
ACF 100 P	220	740	220	740	220	740	480	-	-	480

MODEL	DN7	DN11
	Vertical mounting	
ACF 24 P	225	-
ACF 35 P	230	-
ACF 50 P	230	-
ACF 100 P	300	-

MODEL	DN7	DN18	DN20
	Horizontal mounting		
ACF 24 P	-	225	-
ACF 35 P	-	230	-
ACF 50 P	-	230	-
ACF 100 P	-	300	-

Connection sizes

MODEL	DN1	DN2	DN3	DN4	DN15	DN18	DN19	DN20
ACF 24 P	G1.1/4"	G1.1/4"	G1.1/4"	G1.1/4"	G1/2"	G1.1/4"	G1.1/4"	-
ACF 35 P	G1.1/4"	G1.1/4"	G1.1/4"	G1.1/4"	G1/2"	G1.1/4"	G1.1/4"	-
ACF 50 P	G1.1/4"	G1.1/4"	G1.1/4"	G1.1/4"	G1/2"	G1.1/4"	G1.1/4"	-
ACF 100 P	G1.1/2"	G1.1/2"	G1.1/2"	G1.1/2"	G1/2"	G1.1/4"	G1.1/4"	G1.1/2"

MODEL	DN7	DN11
	Vertical mounting	
ACF 24 P	-	G1.1/4"
ACF 35 P	G1.1/2"	G1.1/4"
ACF 50 P	G1.1/2"	G1.1/4"
ACF 100 P	G1.1/2"	G1.1/4"

MODEL	DN7	DN18	DN20
	Horizontal mounting		
ACF 24 P	G1.1/4"	-	-
ACF 35 P	G1.1/4"	-	G1.1/2"
ACF 50 P	G1.1/4"	G1.1/4"	G1.1/2"
ACF 100 P	G1.1/4"	G1.1/4"	G1.1/2"

Insulation characteristics

Model	Insulation type	Thickness (mm)	Finish
ACF 24 P	Rigid expanded polyurethane with 95% closed cells, CFC and HCFC free, fire resistance class B2 acc. to DIN 4102-1	65	Grey polystyrene RAL 9006
ACF 35 P	Rigid expanded polyurethane with 95% closed cells, CFC and HCFC free, fire resistance class B2 acc. to DIN 4102-1	50	Grey polystyrene RAL 9006
ACF 50 P	Rigid expanded polyurethane with 95% closed cells, CFC and HCFC free, fire resistance class B2 acc. to DIN 4102-1	50	Grey polystyrene RAL 9006
ACF 100 P	Rigid expanded polyurethane with 95% closed cells, CFC and HCFC free, fire resistance class B2 acc. to DIN 4102-1	55	Grey polystyrene RAL 9006

Reference standards

CYLINDER: | Directive 2014/68/EU – ART. 4.3, with exemption from CE marking.
EN 12897:2020 standard.
Designed and built in accordance with the requirements of 2009/125/EC and Regulation 814/2013 (EU).
Labeling in accordance with the requirements of 2017/1369/EU and Delegated Regulation 812/2013 (EU).

Warranty: 2 years

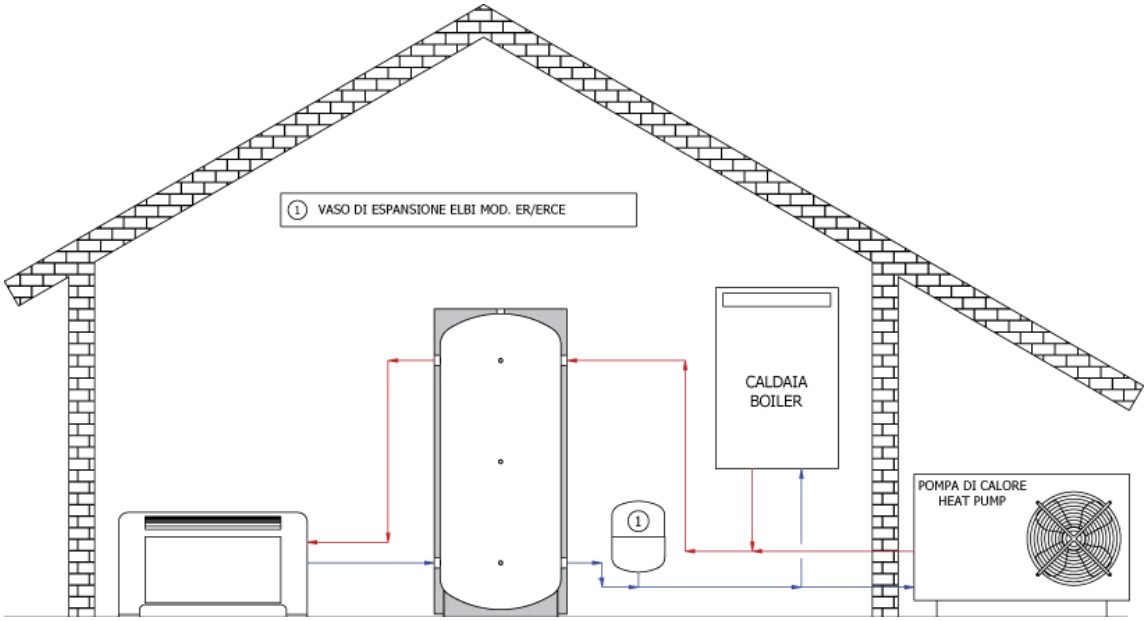
Immersion heaters

Code	Power	Source	Connection	Length	Applicable to			
					24	35	50	100
IMMERSION HEATERS WITHOUT THERMOSTAT								
8601000	1	220	G1.1/4"	295	50	73	105	201
8602601	2.6	220	G1.1/4"	360	✗	28	40	77
IMMERSION HEATERS WITH THERMOSTAT								
8T01500	1.5	230	G1.1/2"	320	✗	49	70	134
8T02000	2	230	G1.1/2"	320	✗	37	52	101
8T02200	2.2	230	G1.1/2"	320	✗	33	48	92
8T02500	2.5	230	G1.1/2"	320	✗	29	42	81
8T03000	3	230	G1.1/2"	320	✗	24	35	67

The heaters with thermostat are applicable exclusively to vertical tanks or hanging tanks mounted in a vertical position.

Example of installation

ACF



Illustrative diagram; always refer to a qualified technician for the realization of the systems.

Rev. date 01/03/2024

ACF VERTICALI

THERMAL FLYWHEEL FOR AIR CONDITIONING / HEATING SYSTEMS

24 - 5.129 litres

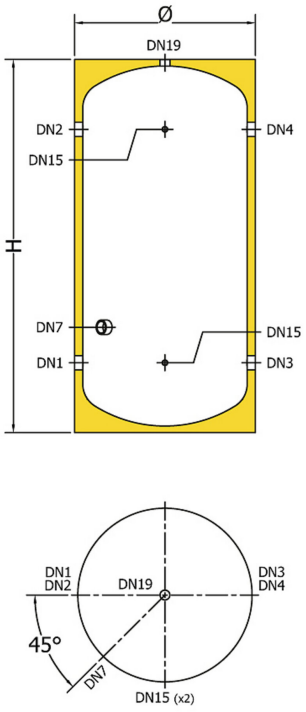
Installations

Use as a thermal flywheel in indoor installations of air conditioning and heating systems to optimize the thermal inertia and increase the volume of chilled/heated water.

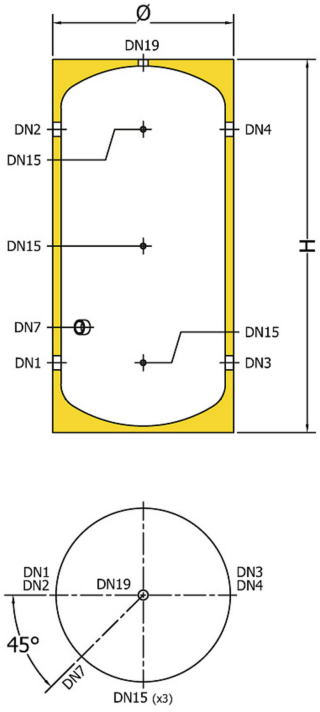
CHARACTERISTICS

(mod. 50 - 1000)	10 bar
MAX PRESSURE (mod. 1500 - 5000)	6 bar

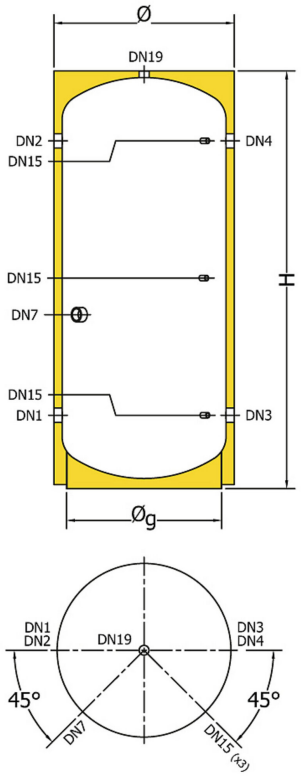
ACF 50



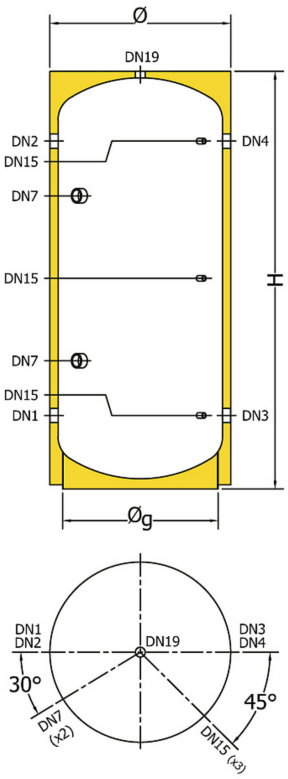
ACF 100



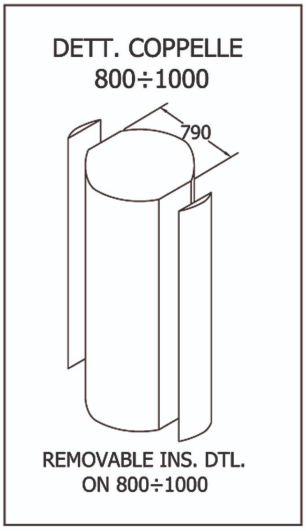
ACF 200 - 500



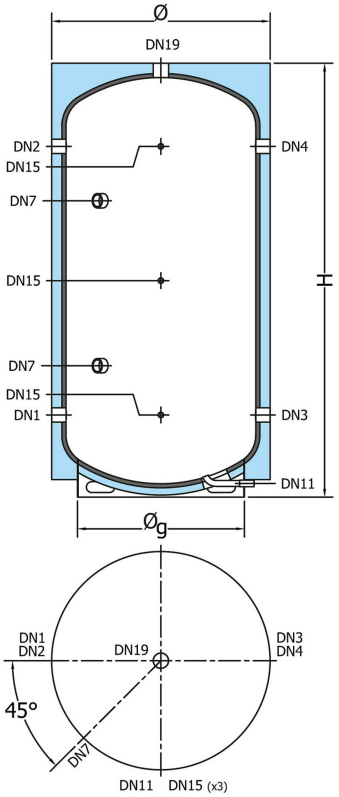
ACF 800 - 1000



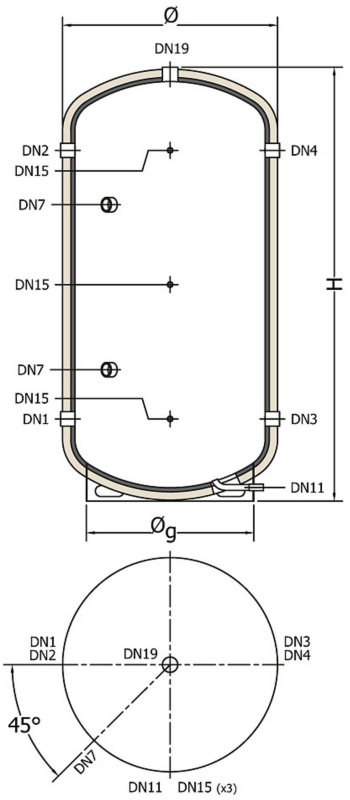
ACF 800 - 1000 CUPS



ACF 1500 - 2000



ACF 3000 - 5000



Keyword

DN	Description
DN1	Flow to source
DN2	Flow from source
DN3	Flow from heating system
DN4	Flow to heating system
DN7	Predisposition for immersion heater
DN11	Drain
DN15	Probe
DN19	Auxiliary connection

Model	Code	Energy label	St. loss W	Capacity L	H mm	Ø skirt mm	Ø mm	Pm mm
ACF-50	A460L34 GGP50	A	26	50	880		410	980
ACF-100	A480L38 PGP55	B	43	96	960		510	1090
ACF-200	A480L47 PGP55	B	57	195	1185	460	610	1350
ACF-300	A480L51 PGP75	B	67	282	1655	460	650	1800
ACF-500	A480L55 PGP55	C	91	494	1720	600	760	1900
ACF-800	A480L60 PGP75	C	131	747	1790	760	940	2050
ACF-1000	A480L62 PGP75	C	136	868	2040	760	940	2270
ACF-1500	A480H67 GB5A5	C	163	1643	2495	850	1310	2850
ACF-2000	A480H70 GB5A5	C	174	1952	2445	950	1410	2880
ACF-3000	A480H74 GB370			2986	2840	1100	1390	3170
ACF-5000	A480H80 GB370			5129	3025	1450	1740	3490

Pm: pivot measurement | P = Wall-hung models
Wall-hung models

Connection heights (mm)

MODEL	DN1	DN2	DN3	DN4	DN7	DN7	DN11	DN15	DN15	DN15	DN19
ACF-50	180	705	180	705	-	230	-	180	705	-	-
ACF-100	235	715	235	715	-	315	-	235	715	475	-
ACF-200	255	915	255	915	-	505	-	255	915	585	-
ACF-300	260	1360	260	1360	-	585	-	260	1360	810	-
ACF-500	320	1390	320	1390	-	730	-	320	1390	855	-
ACF-800	340	1410	340	1410	1250	500	-	340	1410	875	-
ACF-1000	340	1660	340	1660	1460	550	-	340	1660	1000	-
ACF-1500	485	2005	485	2005	1755	735	80	485	2005	1245	-
ACF-2000	475	1995	475	1995	1745	725	80	475	1995	1235	-
ACF-3000	540	2320	540	2320	2030	830	80	540	2320	1430	-
ACF-5000	635	2415	635	2415	2125	925	80	635	2415	1525	-

Connection sizes

MODEL	DN1	DN2	DN3	DN4	DN7	DN11	DN15	DN19
ACF-50	G1.1/4"	G1.1/4"	G1.1/4"	G1.1/4"	G1.1/2"	-	G1/2"	G1.1/4"
ACF-100	G1.1/2"	G1.1/2"	G1.1/2"	G1.1/2"	G1.1/2"	-	G1/2"	G1.1/4"
ACF-200	G1.1/2"	G1.1/2"	G1.1/2"	G1.1/2"	G1.1/2"	-	G1/2"	G1.1/4"
ACF-300	G2"	G2"	G2"	G2"	G1.1/2"	-	G1/2"	G1.1/4"
ACF-500	G3"	G3"	G3"	G3"	G1.1/2"	-	G1/2"	G1.1/4"
ACF-800	G3"	G3"	G3"	G3"	G1.1/2"	-	G1/2"	G1.1/2"
ACF-1000	G3"	G3"	G3"	G3"	G1.1/2"	-	G1/2"	G1.1/2"
ACF-1500	G3"	G3"	G3"	G3"	G1.1/2"	G1"	G1/2"	G3"
ACF-2000	G3"	G3"	G3"	G3"	G1.1/2"	G1"	G1/2"	G3"
ACF-3000	G4"	G4"	G4"	G4"	G1.1/2"	G1"	G1/2"	G3"
ACF-5000	G4"	G4"	G4"	G4"	G1.1/2"	G1"	G1/2"	G3"

Insulation characteristics

Model	Insulation type	Thickness (mm)	Int. Thickness (mm)	Finish
ACF-50	Rigid expanded polyurethane with 95% closed cells, CFC and HCFC free, fire resistance class B2 acc. to DIN 4102-1	50		Grey polystyrene RAL 9006
ACF-100	Rigid expanded polyurethane with 95% closed cells, CFC and HCFC free, fire resistance class B2 acc. to DIN 4102-1	55		Grey polystyrene RAL 9006
ACF-200	Rigid expanded polyurethane with 95% closed cells, CFC and HCFC free, fire resistance class B2 acc. to DIN 4102-1	55		Grey polystyrene RAL 9006
ACF-300	Rigid expanded polyurethane with 95% closed cells, CFC and HCFC free, fire resistance class B2 acc. to DIN 4102-1	75		Grey polystyrene RAL 9006
ACF-500	Rigid expanded polyurethane with 95% closed cells, CFC and HCFC free, fire resistance class B2 acc. to DIN 4102-1	55		Grey polystyrene RAL 9006
ACF-800	Rigid expanded polyurethane with 95% closed cells, CFC and HCFC free, fire resistance class B2 acc. to DIN 4102-1	75		Grey PVC RAL 9006
ACF-1000	Rigid expanded polyurethane with 95% closed cells, CFC and HCFC free, fire resistance class B2 acc. to DIN 4102-1	75		Grey PVC RAL 9006
ACF-1500	Inner layer: closed cells polyethylene - Outer: 100% recyclable polyester fiber	130	20	Grey PVC RAL 9006
ACF-2000	Inner layer: closed cells polyethylene Outer layer: 100% recyclable polyester fiber, fire resistance class B1 acc. to DIN 4102-1	130	20	Grey PVC RAL 9006
ACF-3000	Inner layer: closed cells polyethylene - Outer layer: open cells flexible expanded polyurethane	50	20	White PVC RAL 9001
ACF-5000	Inner layer: closed cells polyethylene - Outer layer: open cells flexible expanded polyurethane	50	20	White PVC RAL 9001

Reference standards

CYLINDER: | Directive 2014/68/EU – ART. 4.3, with exemption from CE marking.
EN 12897:2020 standard.
Designed and built in accordance with the requirements of 2009/125/EC and Regulation 814/2013 (EU).
Labeling in accordance with the requirements of 2017/1369/EU and Delegated Regulation 812/2013 (EU).

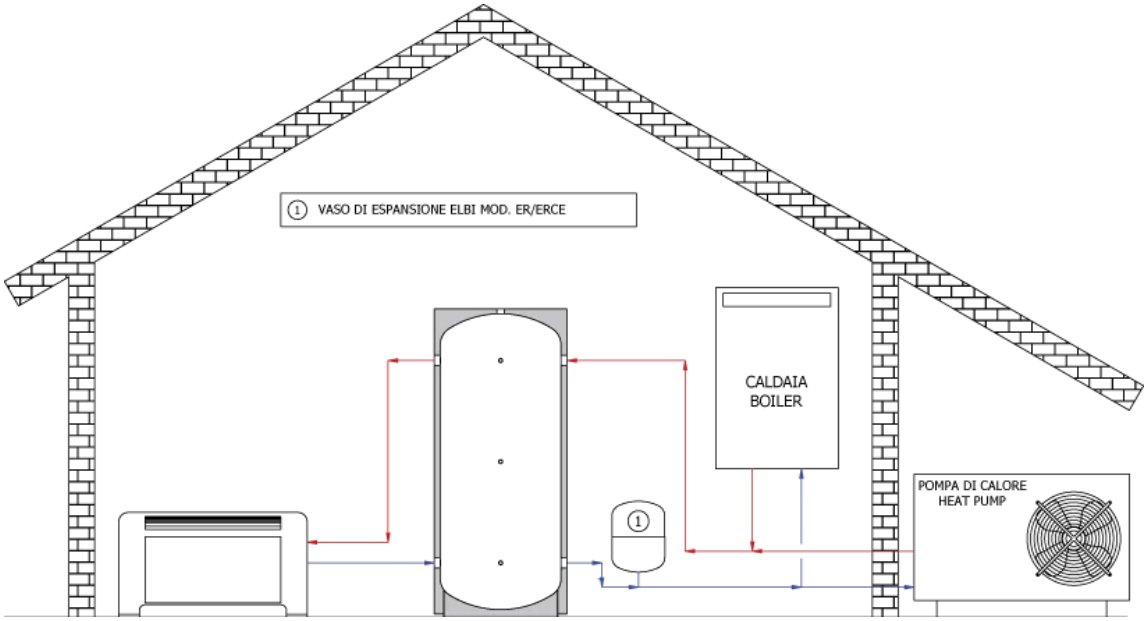
Warranty: 2 years

Immersion heaters

Code	Power	Source	Connection	Length	Applicable to										
					50	100	200	300	500	800	1000	1500	2000	3000	5000
IMMERSION HEATERS WITHOUT THERMOSTAT															
8601000	1	220	G1.1/4"	295	105	201	✓	✓	✓	✓	✓	✓	✓	✓	✓
8601650	1.65	220	G1.1/4"	450	✗	✗	248	358	✓	✓	✓	✓	✓	✓	✓
8602000	2	220	G1.1/4"	515	✗	✗	✗	✗	✓	✓	✓	✓	✓	✓	✓
8602600	2.6	220	G1.1/4"	675	✗	✗	✗	✗	✗	✓	✓	✓	✓	✓	✓
8602601	2.6	220	G1.1/4"	360	40	77	157	227	✓	✓	✓	✓	✓	✓	✓
8603300	3.3	220	G1.1/4"	825	✗	✗	✗	✗	✗	✗	✗	✓	✓	✓	✓
8603301	3.3	220	G1.1/4"	435	✗	✗	124	179	314	✓	✓	✓	✓	✓	✓
8604001	4	220	G1.1/4"	510	✗	✗	✗	✗	259	✓	✓	✓	✓	✓	✓
8705000	5	400	G1.1/2"	445	✗	✗	82	118	207	✓	✓	✓	✓	✓	✓
8706000	6	400	G1.1/2"	510	✗	✗	✗	✗	173	✓	303	✓	✓	✓	✓
8708000	8	400	G1.1/2"	670	✗	✗	✗	✗	✗	✓	228	✓	✓	✓	✓
8710000	10	400	G1.1/2"	820	✗	✗	✗	✗	✗	✗	✗	345	✓	✓	✓
8712000	12	400	G1.1/2"	970	✗	✗	✗	✗	✗	✗	✗	287	341	✓	✓
8717000	17	400	G2"	1200	✗	✗	✗	✗	✗	✗	✗	✗	✗	✓	✓
IMMERSION HEATERS WITH THERMOSTAT															
8T01500	1.5	230	G1.1/2"	320	70	134	273	✓	✓	✓	✓	✓	✓	✓	✓
8T02000	2	230	G1.1/2"	320	52	101	204	296	✓	✓	✓	✓	✓	✓	✓
8T02200	2.2	230	G1.1/2"	320	48	92	186	269	✓	✓	✓	✓	✓	✓	✓
8T02500	2.5	230	G1.1/2"	320	42	81	164	237	✓	✓	✓	✓	✓	✓	✓
8T03000	3	230	G1.1/2"	320	35	67	136	197	345	✓	✓	✓	✓	✓	✓
8T04000	4	400	G1.1/2"	400	✗	✗	102	148	259	✓	✓	✓	✓	✓	✓
8T05000	5	400	G1.1/2"	500	✗	✗	✗	✗	207	✓	✓	✓	✓	✓	✓
8T06000	6	400	G1.1/2"	600	✗	✗	✗	✗	173	✓	303	✓	✓	✓	✓
8T09000	9	400	G1.1/2"	700	✗	✗	✗	✗	✗	✓	202	✓	✓	✓	✓
8T12000	12	400	G1.1/2"	850	✗	✗	✗	✗	✗	✗	✗	287	341	✓	✓

Example of installation

ACF



Illustrative diagram; always refer to a qualified technician for the realization of the systems.

Rev. date 01/03/2024