

dal 1968



SCAMBIATORI - BOLLITORI - SERBATOI



BV



BRAZED PLATE HEAT EXCHANGERS

The **BV** brazed plate heat exchangers are suitable for a very wide range of uses and represent an excellent solution for thermo-hydraulic systems and industrial applications.

Made from AISI 316L stainless steel plates brazed with 99.99% pure copper, equipped as standard with GAS Male threaded connections.

The robust means of construction and the use of high quality materials enable high operating pressures and an extremely wide range of temperatures to be guaranteed, expanding the possibility of use even to particularly harsh operating conditions.

They are available in 4 sizes with connections from ¾" to 2".

All models except the BV18 can be supplied with 2 different types of plate corrugation patterns

- **H** (High performance, high pressure drop)
- **L** (Low performance, low pressure drop)

to allow the characteristics of the system to be calibrated in the best possible manner and obtain the maximum possible output:

The extreme flexibility of the BV brazed heat exchangers is enhanced with the range of specific accessories that satisfy every type of application; it is possible to choose between different types of insulation (both thermal and anti-condensation) with various types of external cladding and to assess the convenience of adopting the support brackets for fixing to the wall which have been specifically designed for supporting the heat exchanger, even if fitted with the relative insulation.



#### REMOVABLE THERMAL INSULATION WITH PLASTIC EXTERNAL FINISH.

Thermal insulation consisting of interlocking rigid polyurethane half-shells, CFC and HCFC free, density 60 kg/m<sup>3</sup>, thermal conductivity 0.029 W/mK, maximum operating temperature 130°C, coloured polystyrene external finish. Fastened with hook-and-loop fasteners.



#### NON-REMOVABLE THERMAL AND ANTI-CONDENSATION INSULATION.

Extra-thick anti-condensation insulation made of closed-cell elastomeric foam, CFC-free, asbestos-free, no odour expansion gas, dual density 30/80 kg/m<sup>3</sup>, thermal conductivity 0.045 W/mK, operating temperature -10/+90°C, natural external finish. Perfectly bonded to the external surfaces of the exchanger by adhesive bonding.



#### NON REMOVABLE ANTI-CONDENSATION INSULATION.

Anti-condensation insulation made of closed-cell elastomeric foam, CFC-free, asbestos-free, odourless expansion gas-free, density 30 kg/m<sup>3</sup>, thermal conductivity 0.041 W/mK, operating temperature -10/+90°C, natural external finish. Perfectly bonded to the external surfaces of the exchanger by adhesive bonding.



#### WALL MOUNTING BRACKET.

Made of steel, these brackets allow the exchanger to be fixed to the wall.

### CONSTRUCTION

PLATES MATERIAL

Stainless Steel AISI 316L

HYDRAULIC CONNECTIONS MATERIAL

Stainless Steel AISI 304

### REGULATORY COMPLIANCE

European Pressure Equipment Directive (PED) 2014/68/EU | Sound Engineering Practice - exclusion from CE marking - Art. 4.3

Italian Decree Law D.M. 174/04 | Suitable for contact with drinking water

# BV 18

## SPECIFICATIONS

### DIMENSIONS

H	Height	mm	210
L	Width	mm	95
A	Depth	mm	2 + (Number of Plates × 3,3)
O	Horizontal centre distance between conns	mm	50
V	Vertical centre distance between conns	mm	165
E	Hydraulic connections height	mm	15

### PLATES

Heat exchange surface	m <sup>2</sup>	0,018 × (Number of Plates - 2)
Total content	litri	0,020 × (Number of Plates - 1)

### HYDRAULIC CONNECTIONS

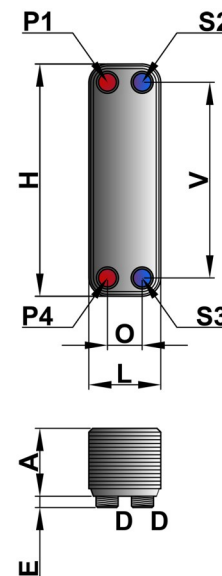
P1	Primary Circuit Inlet	∅	3/4" M
P4	Primary Circuit Outlet	∅	3/4" M
S2	Secondary Circuit Inlet	∅	3/4" M
S3	Secondary Circuit Outlet	∅	3/4" M

### WORKING CONDITIONS

Operating pressure	bar	ATM ÷ 15
Operating temperature	°C	-160 ÷ 200

### WEIGHT

Heat exchanger weight	kg	0,3 + (Number of Plates × 0,09)
-----------------------	----	---------------------------------



## ACCESSORIES & SPARE PARTS

### ITEM

PART NUMBER

NON-REMOVABLE THERMAL AND ANTI-CONDENSATION INSULATION | SMALL SIZE  
(20 plates)

ISOLBV018AT-20

NON-REMOVABLE THERMAL AND ANTI-CONDENSATION INSULATION | MEDIUM SIZE  
(40 plates)

ISOLBV018AT-40

## SELECTION TABLES

Model	Capacity kW	PRIMARY 80/70°C		SECONDARY 60/70°C	
		Flow-rate	Pressure drop	Flow-rate	Pressure drop
		m <sup>3</sup> /h	kPa	m <sup>3</sup> /h	kPa
<b>BV018/020</b>	21	1,84	23,4	1,84	19,7
<b>BV018/040</b>	43	3,79	28,1	3,79	26,5

Model	Capacity kW	PRIMARY 80/65°C		SECONDARY 10/60°C	
		Flow-rate	Pressure drop	Flow-rate	Pressure drop
		m <sup>3</sup> /h	kPa	m <sup>3</sup> /h	kPa
<b>BV018/020</b>	36	2,10	30,4	0,62	2,8
<b>BV018/040</b>	65	3,80	28,5	1,13	2,7

Model	Capacity kW	PRIMARY 65/50°C		SECONDARY 10/50°C	
		Flow-rate	Pressure drop	Flow-rate	Pressure drop
		m <sup>3</sup> /h	kPa	m <sup>3</sup> /h	kPa
<b>BV018/020</b>	26	1,51	16,6	0,56	2,2
<b>BV018/040</b>	60	3,49	25,0	1,48	4,8

Model	Capacity kW	PRIMARY 55/50°C		SECONDARY 10/40°C	
		Flow-rate	Pressure drop	Flow-rate	Pressure drop
		m <sup>3</sup> /h	kPa	m <sup>3</sup> /h	kPa
<b>BV018/020</b>	9	1,55	18,2	0,26	0,4
<b>BV018/040</b>	21	3,61	26,8	0,60	0,7

## BV 26

## SPECIFICATIONS

## DIMENSIONS

H	Height	mm	310
L	Width	mm	111
A	Depth	mm	9 + (Number of Plates × 2,4)
O	Horizontal centre distance between conns	mm	50
V	Vertical centre distance between conns	mm	250
E	Hydraulic connections height	mm	20

## PLATES

Heat exchange surface	m <sup>2</sup>	0,026 × (Number of Plates - 2)
Total content	litri	0,05 × (Number of Plates - 1)

## HYDRAULIC CONNECTIONS

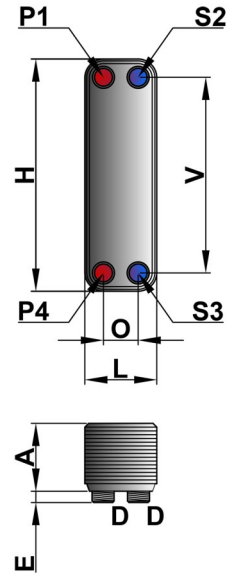
P1	Primary Circuit Inlet	∅	1" M
P4	Primary Circuit Outlet	∅	1" M
S2	Secondary Circuit Inlet	∅	1" M
S3	Secondary Circuit Outlet	∅	1" M

## WORKING CONDITIONS

Operating pressure	bar	ATM ÷ 30
Operating temperature	°C	-160 ÷ 200

## WEIGHT

Heat exchanger weight	kg	1,3 + (Number of Plates × 0,13)
-----------------------	----	---------------------------------



## ACCESSORIES &amp; SPARE PARTS

## ITEM

PART NUMBER

## NON-REMOVABLE ANTI-CONDENSATION INSULATION | SMALL SIZE

(20 plates)

ISOLBV026AT-20

## NON-REMOVABLE ANTI-CONDENSATION INSULATION | MEDIUM SIZE

(30 plates)

ISOLBV026AT-30

## NON-REMOVABLE ANTI-CONDENSATION INSULATION | LARGE SIZE

(40 plates)

ISOLBV026AT-40

## NON-REMOVABLE ANTI-CONDENSATION INSULATION | EXTRA-LARGE SIZE

(50 plates)

ISOLBV026AT-50

## WALL MOUNTING BRACKET

ST-BV-01

## SELECTION TABLE

Plate corrugation pattern H		PRIMARY 80/70°C		SECONDARY 60/70°C		Plate corrugation pattern H		PRIMARY 70/50°C		SECONDARY 10/50°C	
Model	Capacity kW	Flow-rate m <sup>3</sup> /h	Pressure drop kPa	Flow-rate m <sup>3</sup> /h	Pressure drop kPa	Model	Capacity kW	Flow-rate m <sup>3</sup> /h	Pressure drop kPa	Flow-rate m <sup>3</sup> /h	Pressure drop kPa
BV026/020-H	30	2,66	39,5	2,63	32,8	BV026/020-H	35	1,55	14,4	0,75	3,2
BV026/030-H	45	3,99	38,2	3,95	34,1	BV026/030-H	55	2,43	15,2	1,18	3,6
BV026/040-H	60	5,32	38,8	5,27	35,8	BV026/040-H	70	3,09	14,1	1,51	3,5
BV026/050-H	73	6,47	38,7	6,40	35,9	BV026/050-H	87	3,84	14,5	1,87	3,6

Plate corrugation pattern H		PRIMARY 55/50°C		SECONDARY 40/50°C		Plate corrugation pattern L		PRIMARY 55/50°C		SECONDARY 10/45°C	
Model	Capacity kW	Flow-rate m <sup>3</sup> /h	Pressure drop kPa	Flow-rate m <sup>3</sup> /h	Pressure drop kPa	Model	Capacity kW	Flow-rate m <sup>3</sup> /h	Pressure drop kPa	Flow-rate m <sup>3</sup> /h	Pressure drop kPa
BV026/020-H	11	1,93	22,4	0,96	4,9	BV026/020-L	16	2,80	6,3	0,39	1,1
BV026/030-H	18	3,15	25,5	1,57	6,1	BV026/030-L	25	4,38	8,2	0,61	1,2
BV026/040-H	24	4,21	25,9	2,09	6,3	BV026/040-L	35	6,13	11,6	0,86	1,3
BV026/050-H	30	5,27	25,2	2,61	7,1	BV026/050-L	45	7,88	16,5	1,11	1,4

# BV 50

## SPECIFICATIONS

### DIMENSIONS

H	Height	mm	525
L	Width	mm	111
A	Depth	mm	10 + (Number of Plates × 2,4)
O	Horizontal centre distance between conns	mm	50
V	Vertical centre distance between conns	mm	466
E	Hydraulic connections height	mm	20

### PLATES

Heat exchange surface	m <sup>2</sup>	0,05 × (Number of Plates- 2)
Total content	litri	0,094 × (Number of Plates- 1)

### HYDRAULIC CONNECTIONS

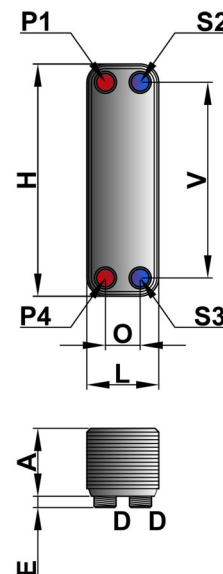
P1	Primary Circuit Inlet	∅	1" M
P4	Primary Circuit Outlet	∅	1" M
S2	Secondary Circuit Inlet	∅	1" M
S3	Secondary Circuit Outlet	∅	1" M

### WORKING CONDITIONS

Operating pressure	bar	ATM ÷ 30
Operating temperature	°C	-160 ÷ 200

### WEIGHT

Heat exchanger weight	kg	2 + (Number of Plates × 0,23)
-----------------------	----	-------------------------------



## ACCESSORIES & SPARE PARTS

### ITEM

### PART NUMBER

REMOVABLE THERMAL INSULATION WITH PLASTIC EXTERNAL FINISH   SMALL SIZE (20 plates)	ISOLBV050S
REMOVABLE THERMAL INSULATION WITH PLASTIC EXTERNAL FINISH   MEDIUM SIZE (40 to 60 plates)	ISOLBV050M
REMOVABLE THERMAL INSULATION WITH PLASTIC EXTERNAL FINISH   LARGE SIZE (80 plates)	ISOLBV050L
NON-REMOVABLE ANTI-CONDENSATION INSULATION   SMALL SIZE (30 to 40 plates)	ISOLBV050A/30-40
NON-REMOVABLE ANTI-CONDENSATION INSULATION   MEDIUM SIZE (50 to 60 plates)	ISOLBV050A/50-60
NON-REMOVABLE ANTI-CONDENSATION INSULATION   LARGE SIZE (80 plates)	ISOLBV050A/80
WALL MOUNTING BRACKET	ST-BV-01

## SELECTION TABLE

Plate corrugation pattern L		PRIMARY 80/70°C		SECONDARY 60/70°C		Plate corrugation pattern L		PRIMARY 70/50°C		SECONDARY 10/50°C	
Model	Capacity kW	Flow-rate m <sup>3</sup> /h	Pressure drop kPa	Flow-rate m <sup>3</sup> /h	Pressure drop kPa	Model	Capacity kW	Flow-rate m <sup>3</sup> /h	Pressure drop kPa	Flow-rate m <sup>3</sup> /h	Pressure drop kPa
BV050/030-L	60	5,27	22,3	5,26	20,1	BV050/030-L	90	3,97	20,2	1,94	5,3
BV050/040-L	78	6,85	23,9	6,84	22,4	BV050/040-L	120	5,29	20,2	2,58	5,6
BV050/050-L	92	8,08	24,7	8,07	23,7	BV050/050-L	155	6,84	22,0	3,33	6,6
BV050/060-L	105	9,23	26,3	9,21	25,5	BV050/060-L	176	7,77	20,6	3,77	6,4
BV050/080-L	130	11,52	30,3	11,41	30,1	BV050/080-L	220	9,71	20,5	4,73	6,9

Plate corrugation pattern L		PRIMARY 55/50°C		SECONDARY 40/50°C		Plate corrugation pattern H		PRIMARY 15/10°C		SECONDARY 7/12°C	
Model	Capacity kW	Flow-rate m <sup>3</sup> /h	Pressure drop kPa	Flow-rate m <sup>3</sup> /h	Pressure drop kPa	Model	Capacity kW	Flow-rate m <sup>3</sup> /h	Pressure drop kPa	Flow-rate m <sup>3</sup> /h	Pressure drop kPa
BV050/030-L	21	3,68	17,6	1,82	4,5	BV050/030-H	17	2,92	39,3	2,91	34,9
BV050/040-L	28	4,91	17,9	2,44	4,9	BV050/040-H	22	3,78	36,2	3,77	33,7
BV050/050-L	39	6,83	22,5	3,39	6,5	BV050/050-H	29	4,98	39,8	4,96	38,5
BV050/060-L	48	8,41	24,6	4,18	7,5	BV050/060-H	35	6,01	40,3	5,99	40,3
BV050/080-L	60	10,5	24,4	5,21	8,3	BV050/080-H	45	7,72	39,4	7,70	39,3

## BV 95



## SPECIFICATIONS

## DIMENSIONS

H	Height	mm	616
L	Width	mm	191
A	Depth	mm	11 + (Number of Plates × 2,8)
O	Horizontal centre distance between conns	mm	92
V	Vertical centre distance between conns	mm	519
E	Hydraulic connections height	mm	20

## PLATES

Heat exchange surface	m <sup>2</sup>	0,095 × (Number of Plates- 2)
Total content	litri	0,25 × (Number of Plates- 1)

## HYDRAULIC CONNECTIONS

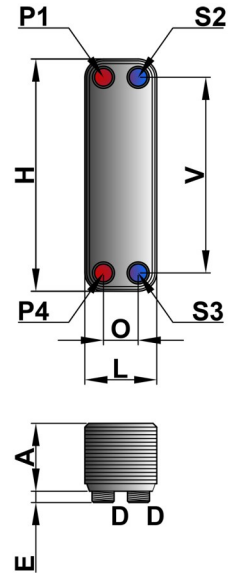
P1	Primary Circuit Inlet	∅	2" M
P4	Primary Circuit Outlet	∅	2" M
S2	Secondary Circuit Inlet	∅	2" M
S3	Secondary Circuit Outlet	∅	2" M

## WORKING CONDITIONS

Operating pressure	bar	ATM ÷ 30
Operating temperature	°C	-160 ÷ 200

## WEIGHT

Heat exchanger weight	kg	7,8 + (Number of Plates × 0,44)
-----------------------	----	---------------------------------



## ACCESSORIES &amp; SPARE PARTS

## ITEM

## PART NUMBER

REMOVABLE THERMAL INSULATION WITH PLASTIC EXTERNAL FINISH   SMALL SIZE (30 to 60 plates)	ISOLBV095M
REMOVABLE THERMAL INSULATION WITH PLASTIC EXTERNAL FINISH   MEDIUM SIZE (80 to 100 plates)	ISOLBV095L
NON-REMOVABLE ANTI-CONDENSATION INSULATION   EXTRA-SMALL SIZE (30 to 40 plates)	ISOLBV095A/30-40
NON-REMOVABLE ANTI-CONDENSATION INSULATION   SMALL SIZE (50 to 60 plates)	ISOLBV095A/50-60
NON-REMOVABLE ANTI-CONDENSATION INSULATION   MEDIUM SIZE (80 plates)	ISOLBV095A/80
NON-REMOVABLE ANTI-CONDENSATION INSULATION   LARGE SIZE (100 plates)	ISOLBV095A/100
NON-REMOVABLE ANTI-CONDENSATION INSULATION   EXTRA-LARGE SIZE (120 plates)	ISOLBV095A/120
WALL MOUNTING BRACKET	ST-BV-02

## SELECTION TABLE

Plate corrugation pattern H		PRIMARY 80/65°C		SECONDARY 60/75°C		Plate corrugation pattern H		PRIMARY 70/50°C		SECONDARY 10/50°C	
Model	Capacity kW	Flow-rate m <sup>3</sup> /h	Pressure drop kPa	Flow-rate m <sup>3</sup> /h	Pressure drop kPa	Model	Capacity kW	Flow-rate m <sup>3</sup> /h	Pressure drop kPa	Flow-rate m <sup>3</sup> /h	Pressure drop kPa
BV095/030-H	90	5,32	15,7	5,26	13,8	BV095/030-H	175	7,72	31,7	3,74	7,8
BV095/040-H	120	7,09	15,4	7,02	14,0	BV095/040-H	225	9,93	29,8	4,84	7,4
BV095/050-H	160	9,46	17,3	9,36	16,1	BV095/050-H	290	12,80	31,5	6,24	7,9
BV095/060-H	210	12,41	20,7	12,29	19,5	BV095/060-H	340	15,00	30,4	7,31	7,7
BV095/080-H	260	15,37	18,6	15,21	17,6	BV095/080-H	430	18,98	28,4	9,25	7,3
BV095/100-H	300	17,73	16,8	17,55	16,4	BV095/100-H	550	24,27	31,3	11,83	8,2
BV095/120-H	360	21,28	18,0	21,06	17,7	BV095/120-H	630	27,80	30,8	13,55	8,0

Plate corrugation pattern H		PRIMARY 55/45°C		SECONDARY 40/50°C		Plate corrugation pattern L		PRIMARY 55/50°C		SECONDARY 10/45°C	
Model	Capacity kW	Flow-rate m <sup>3</sup> /h	Pressure drop kPa	Flow-rate m <sup>3</sup> /h	Pressure drop kPa	Model	Capacity kW	Flow-rate m <sup>3</sup> /h	Pressure drop kPa	Flow-rate m <sup>3</sup> /h	Pressure drop kPa
BV095/030-H	70	6,13	21,6	6,09	19,0	BV095/030-L	120	21,03	35,1	2,95	2,1
BV095/040-H	85	7,45	17,7	7,39	16,1	BV095/040-L	150	26,28	33,1	3,69	2,0
BV095/050-H	100	8,76	15,7	8,70	14,6	BV095/050-L	165	28,91	28,7	4,06	1,9
BV095/060-H	130	11,39	18,4	11,31	17,4	BV095/060-L	180	31,54	27,1	4,42	1,8
BV095/080-H	165	14,46	17,3	14,36	16,7	BV095/080-L	200	35,05	25,5	4,92	1,7
BV095/100-H	210	18,40	18,8	18,28	18,3	BV095/100-L	220	38,55	27,2	5,41	1,8
BV095/120-H	260	22,78	21,4	22,63	20,9	BV095/120-L	240	42,06	30,5	5,89	1,7

THIS PAGE INTENTIONALLY LEFT BLANK

[www.pacetti.it](http://www.pacetti.it)



MADE IN ITALY

**PACETTI S.r.l.**

Via G. Marconi, 240/242

44122 - Ferrara - ITALY

Tel. +39 0532 774066

Fax +39 0532 773835

[info@pacetti.it](mailto:info@pacetti.it)