



# Brazed heat exchanger

## About Us

HFM is a global brand of plate heat exchangers and fluid handling equipment supply nowadays. It is rooted in China, and now the brand network spans from Asia, Oceania, Africa, Europe to North America and South America.

We hope this manual could help you to comprehend these equipment and solve problems. Yet, if there are some parts you can not understand or anything beyond this manual, you are welcome to reach us through the methods below.



# Regular BPHE

## Why Choose HFM:

Professional design solution in years experience of various application,

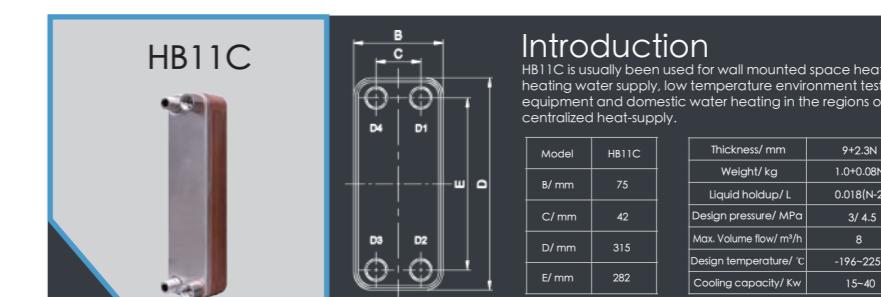
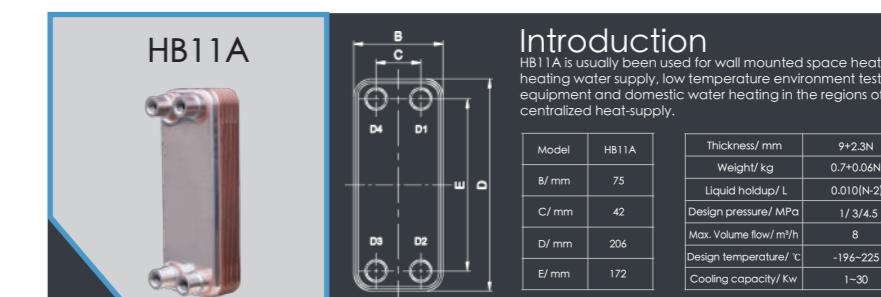
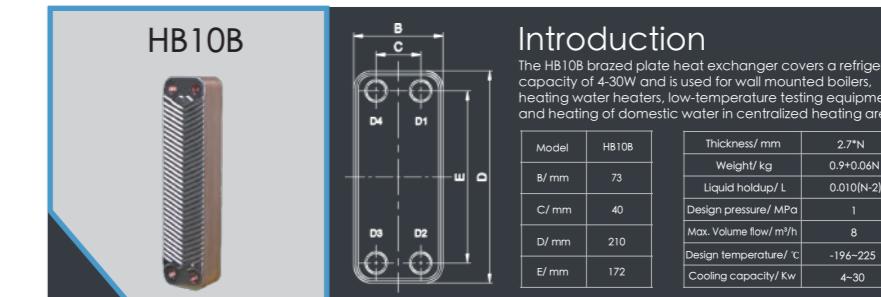
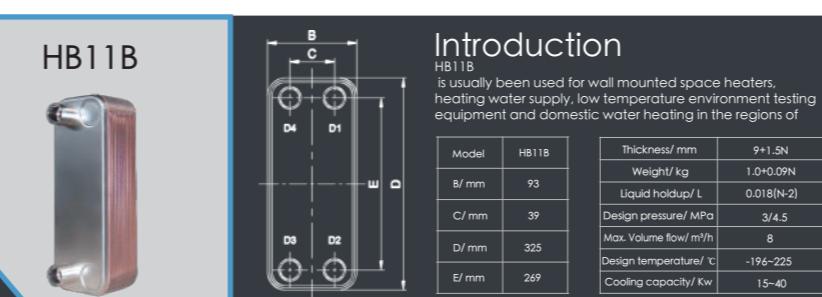
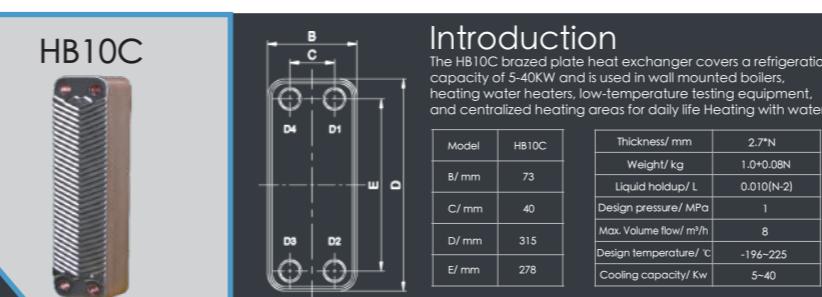
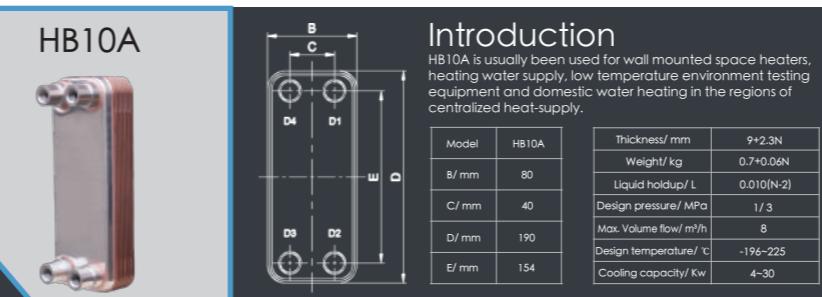
pursuing the high efficiency delivered.

Service minded in handling customer requests.

Tailored and standardized supporting product range.



HFM HQ series brazed units are using copper for brazing to eliminate the gaskets, these compact heat exchangers are perfect for small or packaged application.



Model	HB10A
Thickness/ mm	9+2.3N
Weight/ kg	0.7+0.06N
Liquid holdup/ L	0.010(N-2)
Design pressure/ MPa	1/ 3
Max. Volume flow/ m <sup>3</sup> /h	8
Design temperature/ °C	-196-225
Cooling capacity/ Kw	4-30

Model	HB10B
Thickness/ mm	2.7+N
Weight/ kg	0.9+0.06N
Liquid holdup/ L	0.010(N-2)
Design pressure/ MPa	1
Max. Volume flow/ m <sup>3</sup> /h	8
Design temperature/ °C	-196-225
Cooling capacity/ Kw	4-30

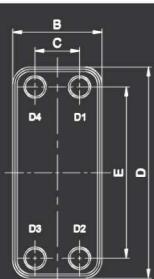
Model	HB10C
Thickness/ mm	2.7N
Weight/ kg	1.0+0.08N
Liquid holdup/ L	0.010(N-2)
Design pressure/ MPa	1
Max. Volume flow/ m <sup>3</sup> /h	8
Design temperature/ °C	-196-225
Cooling capacity/ Kw	5-40

Model	HB11A
Thickness/ mm	9+2.3N
Weight/ kg	0.7+0.06N
Liquid holdup/ L	0.010(N-2)
Design pressure/ MPa	1/ 3/ 4.5
Max. Volume flow/ m <sup>3</sup> /h	8
Design temperature/ °C	-196-225
Cooling capacity/ Kw	1-30

Model	HB11B
Thickness/ mm	9+1.5N
Weight/ kg	1.0+0.09N
Liquid holdup/ L	0.018(N-2)
Design pressure/ MPa	3/ 4.5
Max. Volume flow/ m <sup>3</sup> /h	8
Design temperature/ °C	-196-225
Cooling capacity/ Kw	15-40

Model	HB11C
Thickness/ mm	9+2.3N
Weight/ kg	1.0+0.08N
Liquid holdup/ L	0.018(N-2)
Design pressure/ MPa	3/ 4.5
Max. Volume flow/ m <sup>3</sup> /h	8
Design temperature/ °C	-196-225
Cooling capacity/ Kw	15-40

# Regular BPHE



## Introduction

HB12A is usually been used for wall mounted space heaters, heating water supply, low temperature environment testing equipment and domestic water heating in the regions of centralized heat-supply.

Model	HB12A
B/ mm	106
C/ mm	50
D/ mm	305
Max. Volume flow/ m <sup>3</sup> /h	18
Design temperature/ °C	-196-225
Cooling capacity/ Kw	4-25

Thickness/ mm	9+2.3N
Weight/ kg	1.3+0.12N
Liquid holdup/ L	0.025(N-2)
Design pressure/ MPa	3/4.5
Max. Volume flow/ m <sup>3</sup> /h	18
Design temperature/ °C	-196-225
Cooling capacity/ Kw	4-25

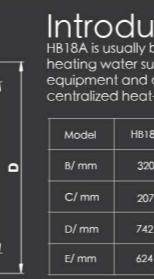
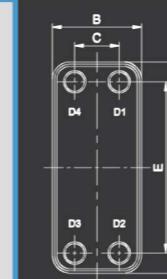
## HB12B



## Introduction

HB12B is usually been used for wall mounted space heaters, heating water supply, low temperature environment testing equipment and domestic water heating in the regions of centralized heat-supply.

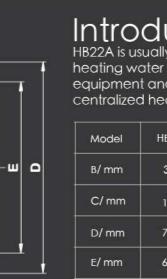
Model	HB12B
B/ mm	106
C/ mm	50
D/ mm	525
E/ mm	466
Thickness/ mm	9+2.3N
Weight/ kg	2.6+0.19N
Liquid holdup/ L	0.047(N-2)
Design pressure/ MPa	3/4.5
Max. Volume flow/ m <sup>3</sup> /h	18
Design temperature/ °C	-196-225
Cooling capacity/ Kw	5-70



## Introduction

HB18A is usually been used for wall mounted space heaters, heating water supply, low temperature environment testing equipment and domestic water heating in the regions of centralized heat-supply.

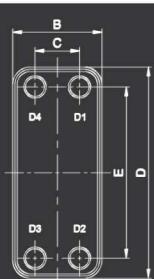
Model	HB18A
B/ mm	320
C/ mm	207
D/ mm	742
E/ mm	624
Thickness/ mm	14+2.7N
Weight/ kg	13+0.75N
Liquid holdup/ L	0.22*(N-2)
Design pressure/ MPa	1/3
Max. Volume flow/ m <sup>3</sup> /h	100
Design temperature/ °C	-196-225
Cooling capacity/ Kw	4-30



## Introduction

HB22A is usually been used for wall mounted space heaters, heating water supply, low temperature environment testing equipment and domestic water heating in the regions of centralized heat-supply.

Model	HB22A
B/ mm	315
C/ mm	188
D/ mm	737
E/ mm	603
Thickness/ mm	2+2.2N
Weight/ kg	13+0.5N
Liquid holdup/ L	0.2*(N-2)
Design pressure/ MPa	1/2.1
Max. Volume flow/ m <sup>3</sup> /h	100
Design temperature/ °C	-196-225
Cooling capacity/ Kw	150-200



## Introduction

HB13A is usually been used for wall mounted space heaters, heating water supply, low temperature environment testing equipment and domestic water heating in the regions of centralized heat-supply.

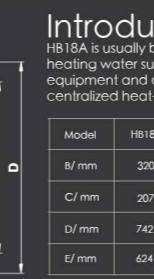
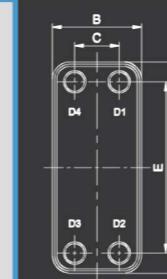
Model	HB13A
B/ mm	127
C/ mm	70
D/ mm	307
E/ mm	250
Thickness/ mm	9+2.3N
Weight/ kg	2.2+0.16N
Liquid holdup/ L	0.032(N-2)
Design pressure/ MPa	3/4.5
Max. Volume flow/ m <sup>3</sup> /h	18
Design temperature/ °C	-196-225
Cooling capacity/ Kw	4-25



## Introduction

HB13B is usually been used for wall mounted space heaters, heating water supply, low temperature environment testing equipment and domestic water heating in the regions of centralized heat-supply.

Model	HB13B
B/ mm	119
C/ mm	63
D/ mm	470
E/ mm	526
Thickness/ mm	10+2.24N
Weight/ kg	2.34+0.194N
Liquid holdup/ L	0.021*(N-2)
Design pressure/ MPa	1/3
Max. Volume flow/ m <sup>3</sup> /h	18
Design temperature/ °C	-196-225
Cooling capacity/ Kw	150-400



## Introduction

HB22B is usually been used for wall mounted space heaters, heating water supply, low temperature environment testing equipment and domestic water heating in the regions of centralized heat-supply.

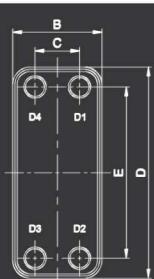
Model	HB22B
B/ mm	370
C/ mm	118/95.5
D/ mm	975
E/ mm	816/861
Thickness/ mm	17+2.675N
Weight/ kg	20+1.26N
Liquid holdup/ L	0.217(N-2)
Design pressure/ MPa	1.5/2.1
Max. Volume flow/ m <sup>3</sup> /h	200
Design temperature/ °C	-160-225
Cooling capacity/ Kw	150-400



## Introduction

HB22C is usually been used for wall mounted space heaters, heating water supply, low temperature environment testing equipment and domestic water heating in the regions of centralized heat-supply.

Model	HB22C
B/ mm	307
C/ mm	179
D/ mm	976
E/ mm	547
Thickness/ mm	13+2.76N
Weight/ kg	10+0.51N
Liquid holdup/ L	0.217(N-2)
Design pressure/ MPa	1/3.5
Max. Volume flow/ m <sup>3</sup> /h	100
Design temperature/ °C	-196-225
Cooling capacity/ Kw	40-100



## Introduction

HB15A is usually been used for wall mounted space heaters, heating water supply, low temperature environment testing equipment and domestic water heating in the regions of centralized heat-supply.

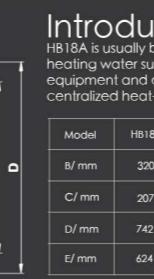
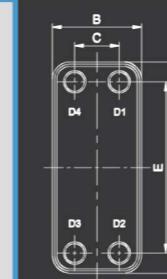
Model	HB15A
B/ mm	184
C/ mm	92
D/ mm	612
E/ mm	519
Thickness/ mm	9+2.3N
Weight/ kg	7.8+0.36N
Liquid holdup/ L	0.105*(N-2)
Design pressure/ MPa	3/4.5
Max. Volume flow/ m <sup>3</sup> /h	42
Design temperature/ °C	-196-225
Cooling capacity/ Kw	30-200



## Introduction

HB15B is usually been used for wall mounted space heaters, heating water supply, low temperature environment testing equipment and domestic water heating in the regions of centralized heat-supply.

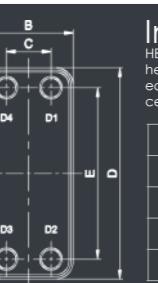
Model	HB15B
B/ mm	247
C/ mm	174
D/ mm	528
E/ mm	456
Thickness/ mm	9+2.3N
Weight/ kg	7.2+0.52N
Liquid holdup/ L	0.198*(N-2)
Design pressure/ MPa	3/4.5
Max. Volume flow/ m <sup>3</sup> /h	42
Design temperature/ °C	-196-225
Cooling capacity/ Kw	4-30



# Evaporator



**HBE12B**

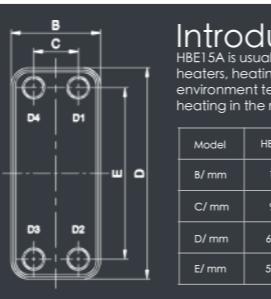


## Introduction

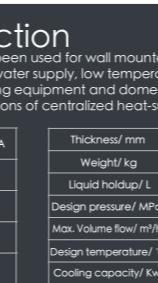
HBE12B is usually been used for wall mounted space heaters, heating water supply, low temperature environment testing equipment and domestic water heating in the regions of centralized heat-supply.

Model	HBE12B
B/ mm	106
C/ mm	50
D/ mm	522
E/ mm	466

Thickness/ mm	9+2.3N
Weight/ kg	2.6+0.19N
Liquid holdup/ L	0.051*(N-2)
Design pressure/ MPa	3/4.5
Max. Volume flow/ m³/h	18
Design temperature/ °C	-196-225
Cooling capacity/ Kw	4-25



**HBE15A**

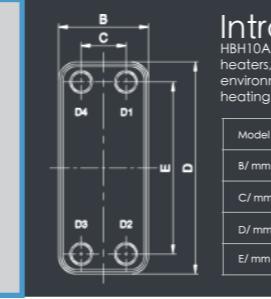


## Introduction

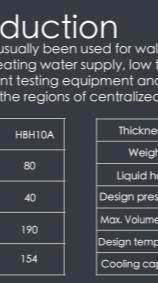
HBE15A is usually been used for wall mounted space heaters, heating water supply, low temperature environment testing equipment and domestic water heating in the regions of centralized heat-supply.

Model	HBE15A
B/ mm	184
C/ mm	92
D/ mm	612
E/ mm	519

Thickness/ mm	9+2.7N
Weight/ kg	7.8+0.36N
Liquid holdup/ L	0.105*(N-2)
Design pressure/ MPa	3/4.5
Max. Volume flow/ m³/h	42
Design temperature/ °C	-196-225
Cooling capacity/ Kw	5-30



**HBH10A**



## Introduction

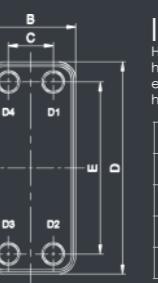
HBH10A is usually been used for wall mounted space heaters, heating water supply, low temperature environment testing equipment and domestic water heating in the regions of centralized heat-supply.

Model	HBH10A
B/ mm	80
C/ mm	40
D/ mm	190
E/ mm	154

Thickness/ mm	9+2.3N
Weight/ kg	0.7+0.06N
Liquid holdup/ L	0.010*(N-2)
Design pressure/ MPa	3/4.5
Max. Volume flow/ m³/h	8
Design temperature/ °C	-196-225
Cooling capacity/ Kw	4-30



**HBH11A**



## Introduction

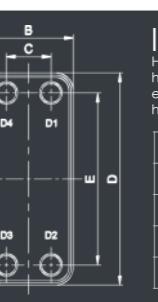
HBH11A is usually been used for wall mounted space heaters, heating water supply, low temperature environment testing equipment and domestic water heating in the regions of centralized heat-supply.

Model	HBH11A
B/ mm	75
C/ mm	412
D/ mm	206
E/ mm	172

Thickness/ mm	9+2.3N
Weight/ kg	0.7+0.06N
Liquid holdup/ L	0.010*(N-2)
Design pressure/ MPa	3/4.5
Max. Volume flow/ m³/h	8
Design temperature/ °C	-196-225
Cooling capacity/ Kw	4-30



**HBE18A**

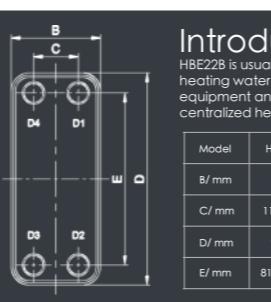


## Introduction

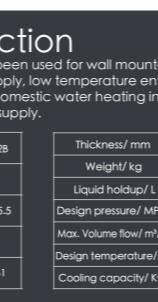
HBE18A is usually been used for wall mounted space heaters, heating water supply, low temperature environment testing equipment and domestic water heating in the regions of centralized heat-supply.

Model	HBE18A
B/ mm	320
C/ mm	207
D/ mm	742
E/ mm	642

Thickness/ mm	14+2.7N
Weight/ kg	13+0.67N
Liquid holdup/ L	0.051*(N-2)
Design pressure/ MPa	3/4.5
Max. Volume flow/ m³/h	100
Design temperature/ °C	-196-225
Cooling capacity/ Kw	4-30



**HBE22A**

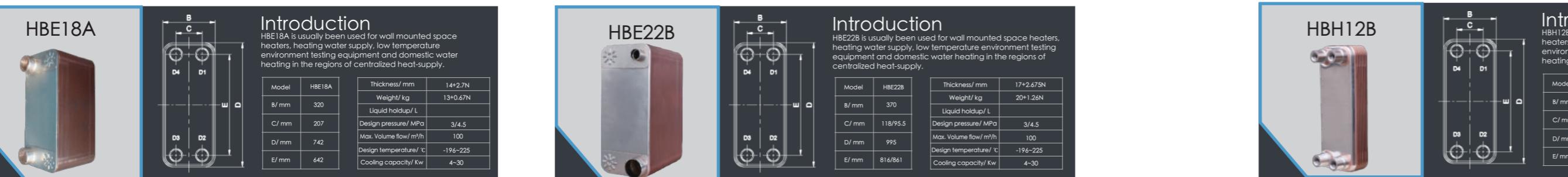


## Introduction

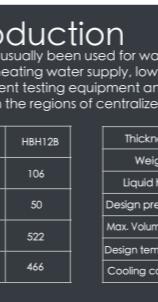
HBE22A is usually been used for wall mounted space heaters, heating water supply, low temperature environment testing equipment and domestic water heating in the regions of centralized heat-supply.

Model	HBE22A
B/ mm	315
C/ mm	188
D/ mm	735
E/ mm	603

Thickness/ mm	11+2.72N
Weight/ kg	13+0.75N
Liquid holdup/ L	0.22*(N-2)
Design pressure/ MPa	3/4.5
Max. Volume flow/ m³/h	100
Design temperature/ °C	-196-225
Cooling capacity/ Kw	4-30



**HBH11B**

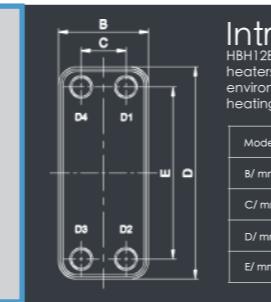


## Introduction

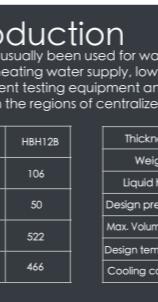
HBH11B is usually been used for wall mounted space heaters, heating water supply, low temperature environment testing equipment and domestic water heating in the regions of centralized heat-supply.

Model	HBH11B
B/ mm	93
C/ mm	39
D/ mm	325
E/ mm	269

Thickness/ mm	9+1.5N
Weight/ kg	1.0+0.09N
Liquid holdup/ L	0.028*(N-2)
Design pressure/ MPa	3/4.5
Max. Volume flow/ m³/h	8
Design temperature/ °C	-196-225
Cooling capacity/ Kw	4-30



**HBH12A**



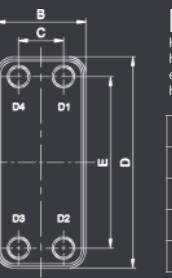
## Introduction

HBH12A is usually been used for wall mounted space heaters, heating water supply, low temperature environment testing equipment and domestic water heating in the regions of centralized heat-supply.

Model	HBH12A
B/ mm	106
C/ mm	50
D/ mm	325
E/ mm	250



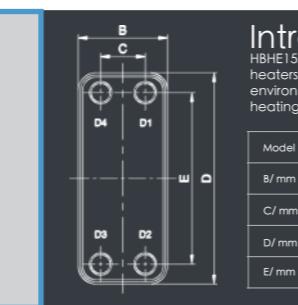
HBH15A



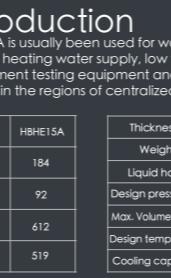
#### Introduction

HBH15A is usually been used for wall mounted space heaters, heating water supply, low temperature environment testing equipment and domestic water heating in the regions of centralized heat-supply.

Model	HBH15A
Thickness/ mm	9+2.7N
Weight/ kg	7.8+0.36N
Liquid holdup/ L	0.105(N-2)
Design pressure/ MPa	3/4.5
Max. Volume flow/ m <sup>3</sup> /h	42
Design temperature/ °C	-196-225
Cooling capacity/ Kw	4-30



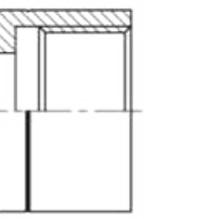
HBHE15A



#### Introduction

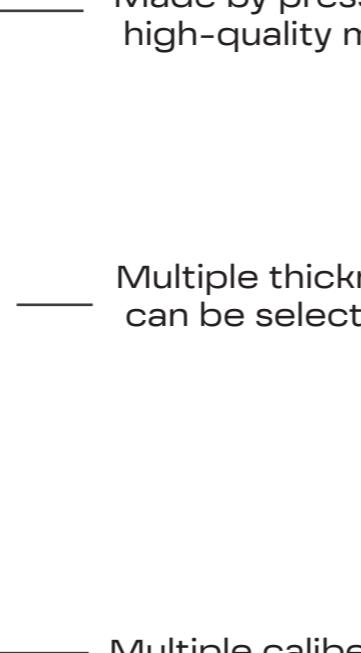
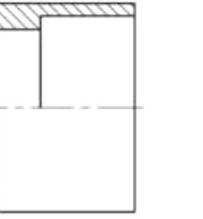
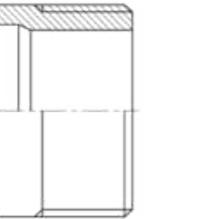
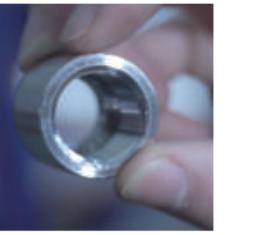
HBHE15A is usually been used for wall mounted space heaters, heating water supply, low temperature environment testing equipment and domestic water heating in the regions of centralized heat-supply.

Model	HBHE15A
Thickness/ mm	9+2.7N
Weight/ kg	7.8+0.36N
Liquid holdup/ L	0.105(N-2)
Design pressure/ MPa	3/4.5
Max. Volume flow/ m <sup>3</sup> /h	42
Design temperature/ °C	-196-225
Cooling capacity/ Kw	4-30



## Connections

There are three common types of connections demonstrated on the left, which are internal thread, external thread and soldering. We are able to produce any types of connections based on your demand. If you have no idea which one you need, you are welcome to reach us for technical support 7/24.



Made by pressing high-quality materials

Multiple thicknesses can be selected

Multiple calibers available

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