

UB Series

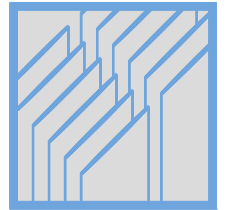
Low Pressure Drop and
Low Thermal Resistance Heat Sink

ALPHA

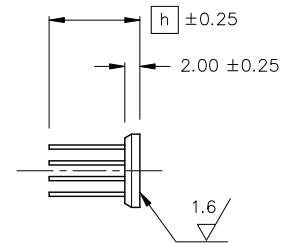
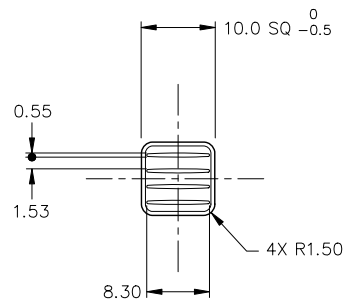
ALPHA

Low Pressure Drop and Low Thermal Resistance Heat Sink

UB10



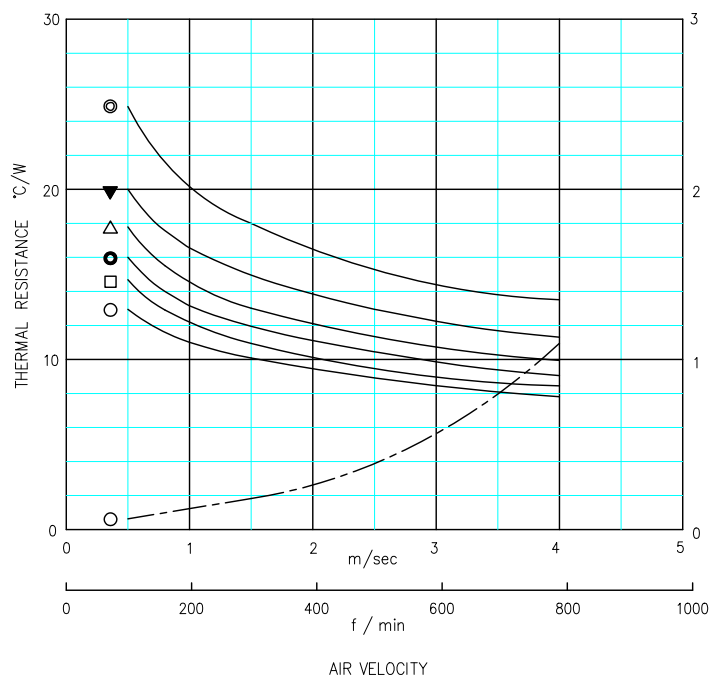
DIM



MATERIAL : A6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

MODEL	HEIGHT [h]	WEIGHT (grams)
UB10-5B	5	0.6
UB10-7B	7	0.7
UB10-10B	10	0.8
UB10-12B	12	0.9
UB10-15B	15	1.0
UB10-20B	20	1.2

DATA



- UB10-5B
- ▼ UB10-7B
- △ UB10-10B
- UB10-12B
- UB10-15B
- UB10-20B

● DUCTED CONDITION
DUMMY HEATER SIZE: 8.0 SQ
THERMAL RESISTANCE ———
PRESSURE DROP - - - - -

■ BASED ON ALPHA'S STANDARD TEST PROCEDURE.
REFER TO TECHNICAL INFORMATION.

Alpha Company Ltd.

256-1 UEDA, NUMAZU-CITY SHIZUOKA-PREF., JAPAN
PHONE +81(55)966 0789
FAX +81(55)966 9192
E mail : alpha@micforg.co.jp
URL : <https://www.micforg.co.jp>

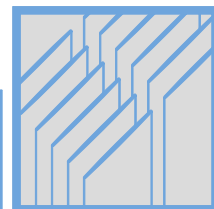
Alpha Novatech, Inc. - a subsidiary of Alpha Company.

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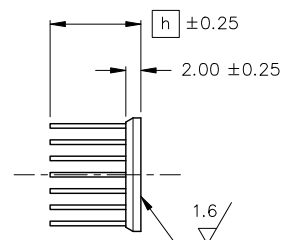
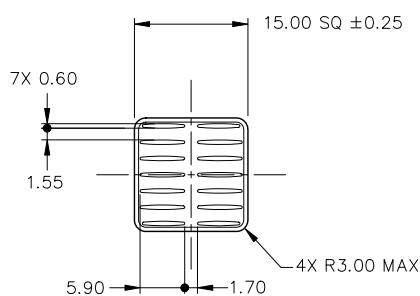
ALPHA

Low Pressure Drop and Low Thermal Resistance Heat Sink

UB15



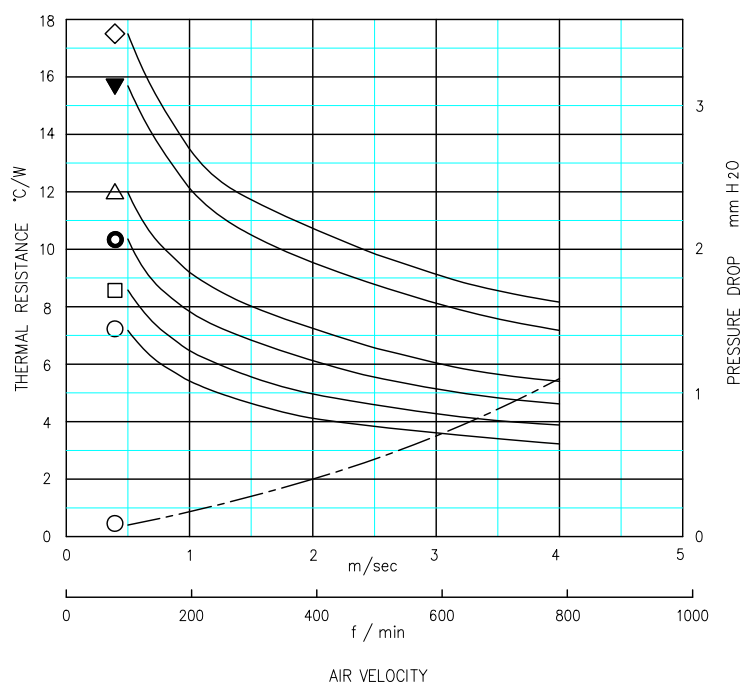
DIM



MATERIAL : A6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

MODEL	HEIGHT [h]	WEIGHT (grams)
UB15-6B	6	1.6
UB15-7B	7	1.7
UB15-10B	10	2.1
UB15-12B	12	2.3
UB15-15B	15	2.6
UB15-20B	20	3.2

DATA



- ◇ UB15-6B
- ▼ UB15-7B
- △ UB15-10B
- UB15-12B
- UB15-15B
- UB15-20B

● DUCTED CONDITION
DUMMY HEATER SIZE: 12.7 SQ
THERMAL RESISTANCE ———
PRESSURE DROP - - - - -

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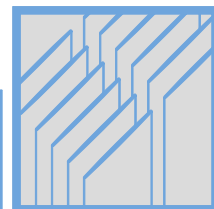
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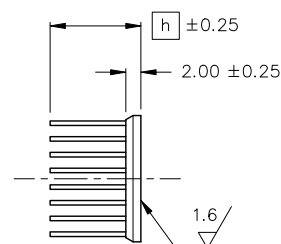
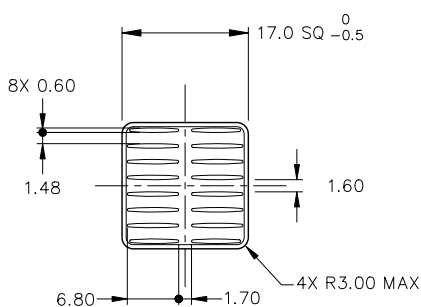
ALPHA

Low Pressure Drop and Low Thermal Resistance Heat Sink

UB17



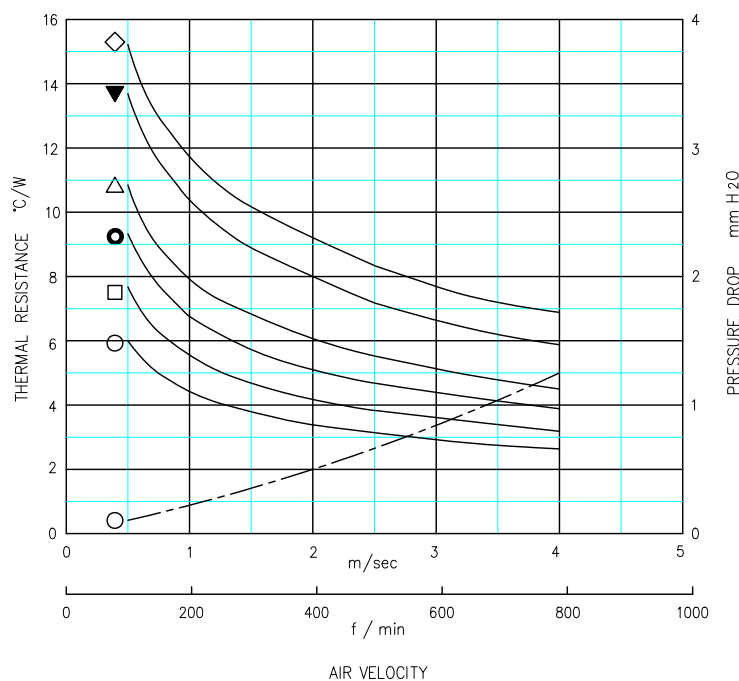
DIM



MATERIAL : A6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

MODEL	HEIGHT [h]	WEIGHT (grams)
UB17-6B	6	2.1
UB17-7B	7	2.3
UB17-10B	10	2.7
UB17-12B	12	3.0
UB17-15B	15	3.4
UB17-20B	20	4.2

DATA



- ◇ UB17-6B
- ▼ UB17-7B
- △ UB17-10B
- UB17-12B
- UB17-15B
- UB17-20B

● DUCTED CONDITION
DUMMY HEATER SIZE: 12.7 SQ
THERMAL RESISTANCE ———
PRESSURE DROP - - - - -

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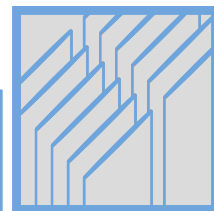
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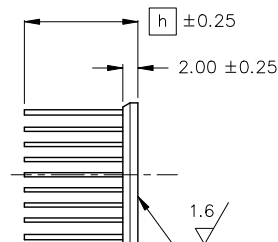
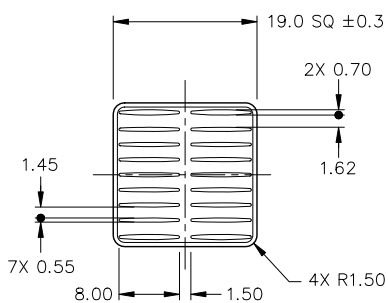
ALPHA

Low Pressure Drop and Low Thermal Resistance Heat Sink

UB19



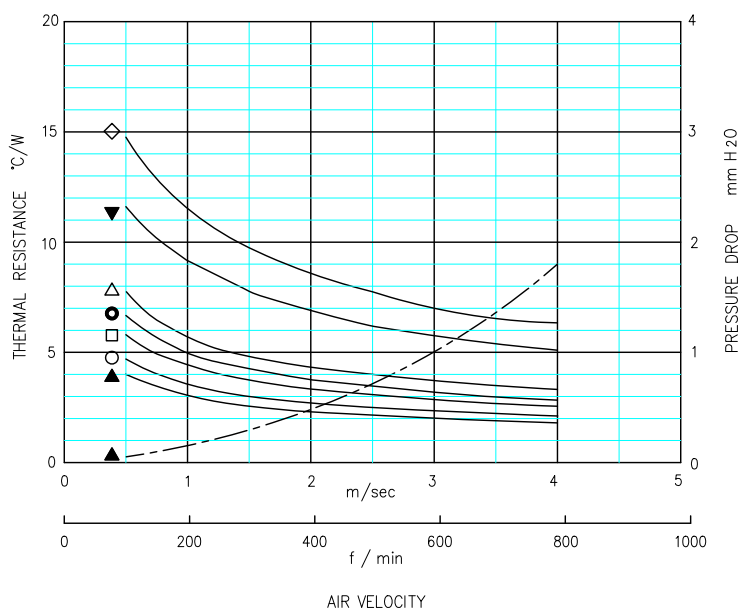
DIM



MATERIAL : A6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

MODEL	HEIGHT [h]	WEIGHT (grams)
UB19-6B	6	2.6
UB19-7B	7	2.8
UB19-10B	10	3.3
UB19-12B	12	3.7
UB19-15B	15	4.2
UB19-20B	20	5.1
UB19-25B	25	6.0

DATA



- ◇ UB19-6B
- ▼ UB19-7B
- △ UB19-10B
- UB19-12B
- UB19-15B
- UB19-20B
- ▲ UB19-25B

● DUCTED CONDITION
DUMMY HEATER SIZE: 12.7 SQ
THERMAL RESISTANCE ———
PRESURE DROP - - - - -

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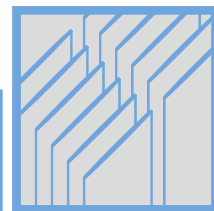
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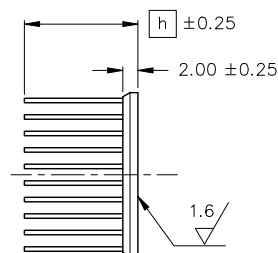
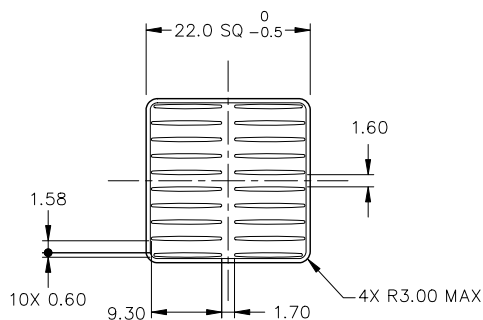
ALPHA

Low Pressure Drop and Low Thermal Resistance Heat Sink

UB22



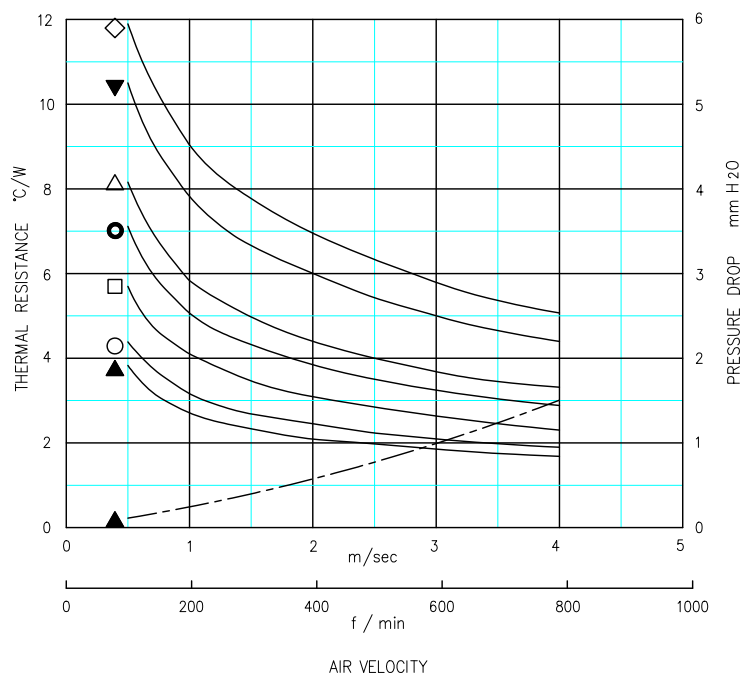
DIM



MATERIAL : A6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

MODEL	HEIGHT [h]	WEIGHT (grams)
UB22-6B	6	3.6
UB22-7B	7	3.8
UB22-10B	10	4.6
UB22-12B	12	5.1
UB22-15B	15	5.9
UB22-20B	20	7.2
UB22-25B	25	8.4

DATA



- ◇ UB22-6B
- ▼ UB22-7B
- △ UB22-10B
- UB22-12B
- UB22-15B
- UB22-20B
- ▲ UB22-25B

● DUCTED CONDITION
DUMMY HEATER SIZE: 12.7 SQ
THERMAL RESISTANCE ———
PRESSURE DROP - - - - -

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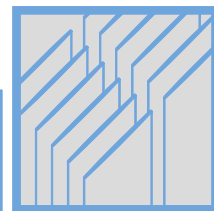
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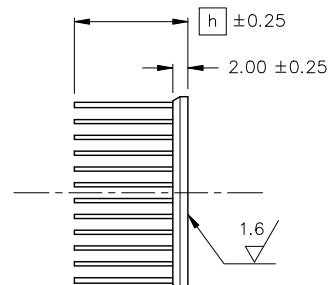
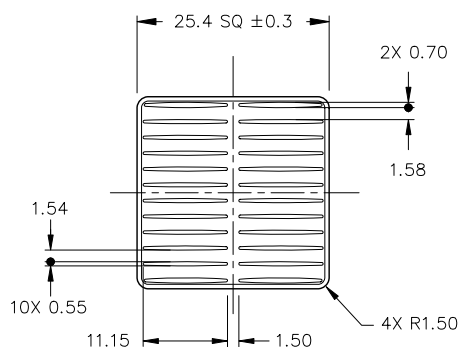
ALPHA

Low Pressure Drop and Low Thermal Resistance Heat Sink

UB25



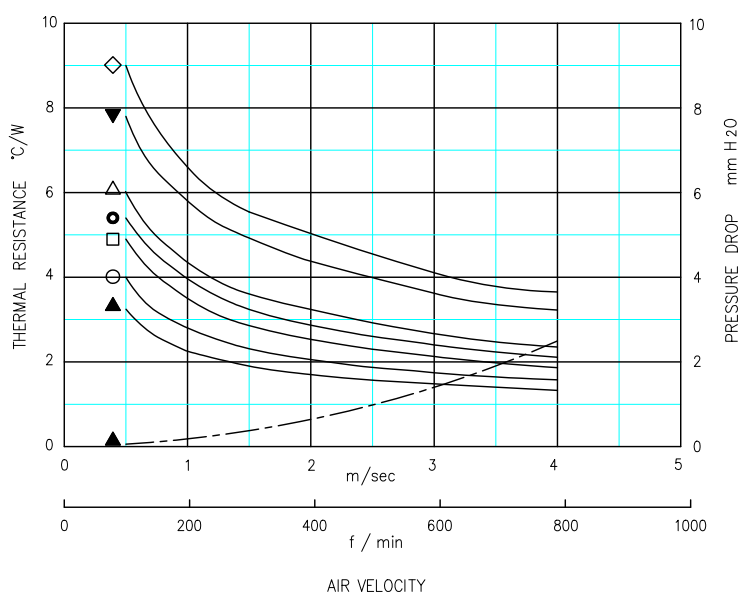
DIM



MATERIAL : A6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

MODEL	HEIGHT [h]	WEIGHT (grams)
UB25-6B	6	4.8
UB25-7B	7	5.2
UB25-10B	10	6.4
UB25-12B	12	7.1
UB25-15B	15	8.1
UB25-20B	20	9.6
UB25-25B	25	11.2

DATA



- ◇ UB25-6B
- ▼ UB25-7B
- △ UB25-10B
- UB25-12B
- UB25-15B
- UB25-20B
- ▲ UB25-25B

● DUCTED CONDITION
DUMMY HEATER SIZE: 12.7 SQ
THERMAL RESISTANCE ———
PRESSURE DROP - - - - -

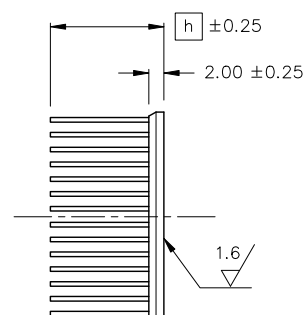
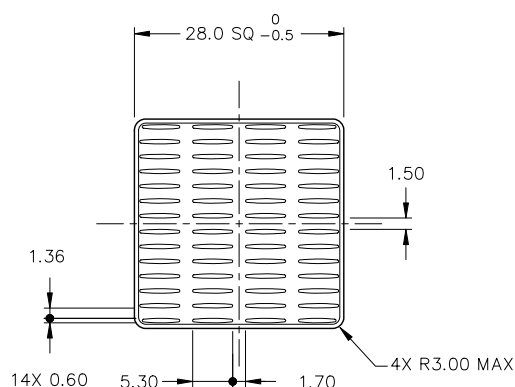
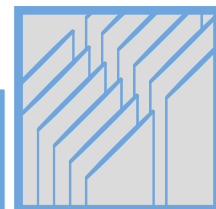
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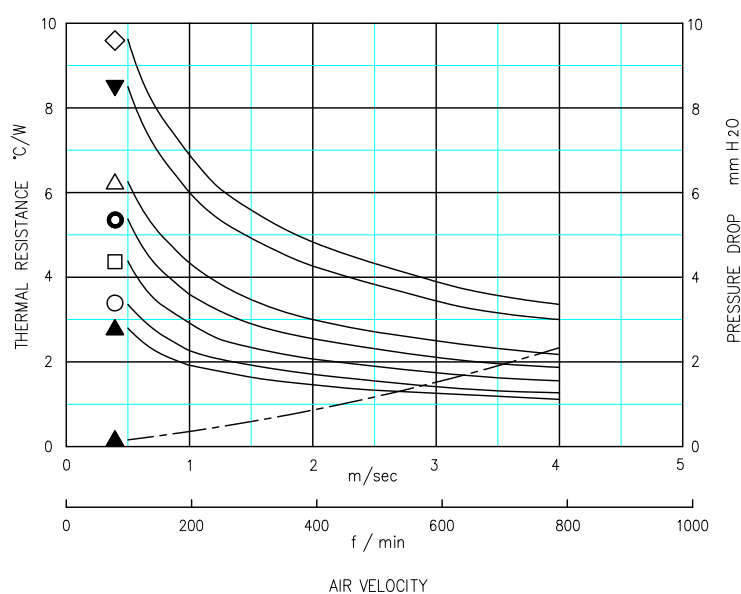
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MATERIAL : A6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

MODEL	HEIGHT [h]	WEIGHT (grams)
UB28-6B	6	5.5
UB28-7B	7	5.9
UB28-10B	10	7.1
UB28-12B	12	7.9
UB28-15B	15	9.1
UB28-20B	20	11.1
UB28-28B	25	13.1



◇	UB28-6B
▼	UB28-7B
△	UB28-10B
●	UB28-12B
□	UB28-15B
○	UB28-20B
▲	UB28-28B

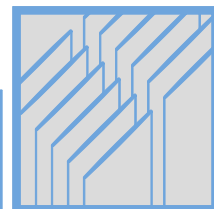
DUCTED CONDITION
 DUMMY HEATER SIZE: 12.7 SQ
 THERMAL RESISTANCE _____
 PRESURE DROP _____

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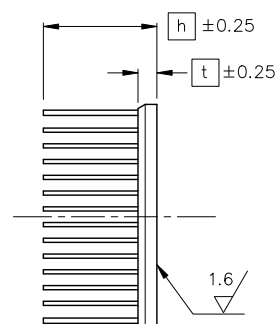
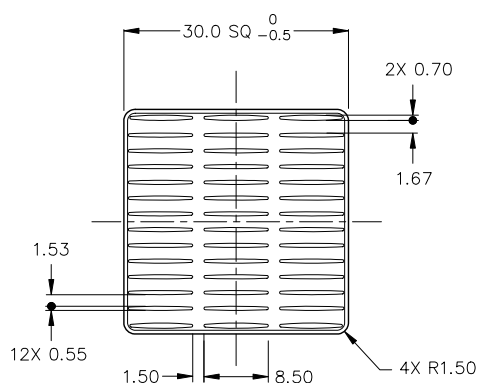
ALPHA

Low Pressure Drop and Low Thermal Resistance Heat Sink

UB30



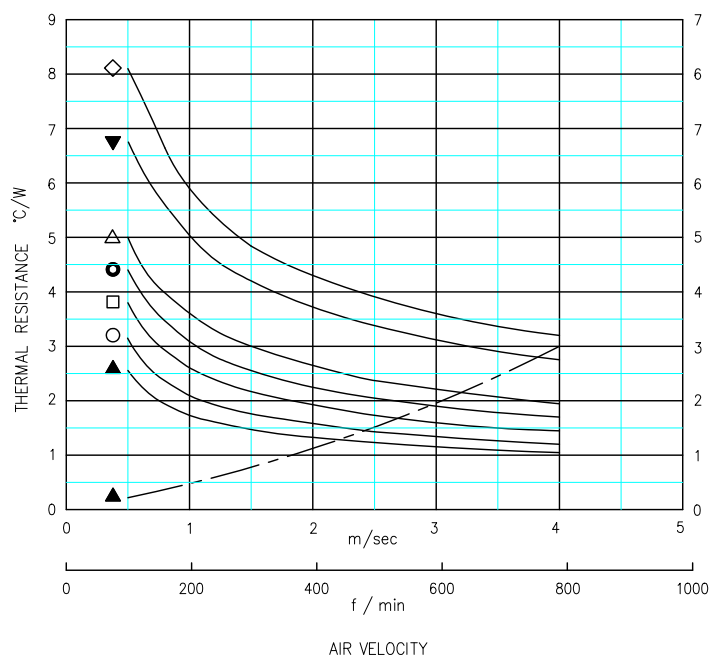
DIM



MATERIAL : A6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

MODEL	HEIGHT [h]	THICKNESS [t]	WEIGHT (grams)
UB30-6B	6	2.00	6.8
UB30-7B	7		7.3
UB30-10B	10		9.0
UB30-12B	12	2.50	10.0
UB30-15B	15		11.5
UB30-20B	20		14.0
UB30-25B	25		16.5
UB30-[h]B	[h] ≤ 7	2.00	-
	7 < [h] ≤ 25	2.50	-

DATA



- ◇ UB30-6B
- ▼ UB30-7B
- △ UB30-10B
- UB30-12B
- UB30-15B
- UB30-20B
- ▲ UB30-25B

● DUCTED CONDITION
DUMMY HEATER SIZE: 12.7 SQ
THERMAL RESISTANCE ———
PRESSURE DROP - - - -

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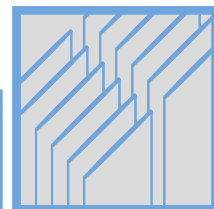
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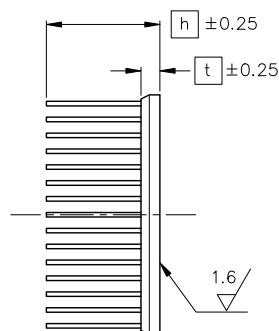
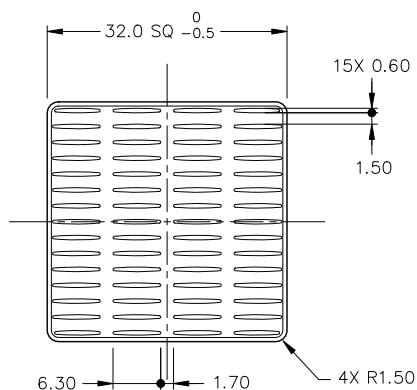
ALPHA

Low Pressure Drop and Low Thermal Resistance Heat Sink

UB32



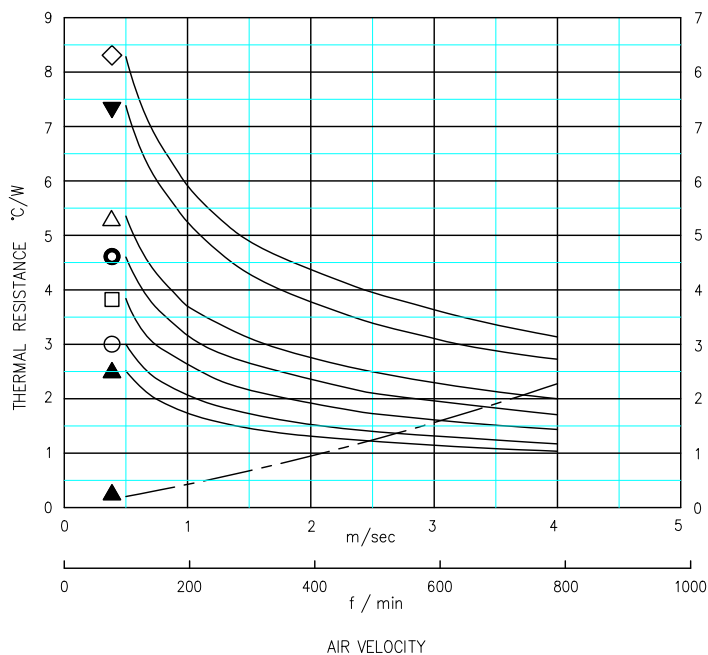
DIM



MATERIAL : A6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

MODEL	HEIGHT [h]	THICKNESS [t]	WEIGHT (grams)
UB32-6B	6	2.00	7.4
UB32-7B	7		7.9
UB32-10B	10		10.5
UB32-12B	12	2.50	11.6
UB32-15B	15		13.1
UB32-20B	20		15.7
UB32-25B	25		18.2
UB32-[h]B	[h] ≤ 7	2.00	—
	7 < [h] ≤ 25	2.50	—

DATA



- ◇ UB32-6B
- ▼ UB32-7B
- △ UB32-10B
- UB32-12B
- UB32-15B
- UB32-20B
- ▲ UB32-25B

● DUCTED CONDITION
DUMMY HEATER SIZE: 12.7 SQ
THERMAL RESISTANCE ———
PRESSURE DROP - - - -

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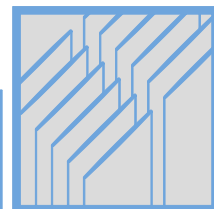
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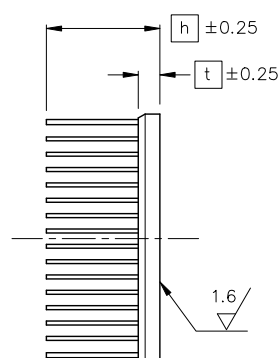
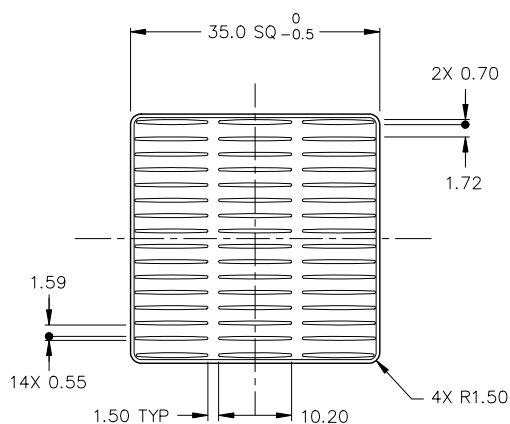
ALPHA

Low Pressure Drop and Low Thermal Resistance Heat Sink

UB35



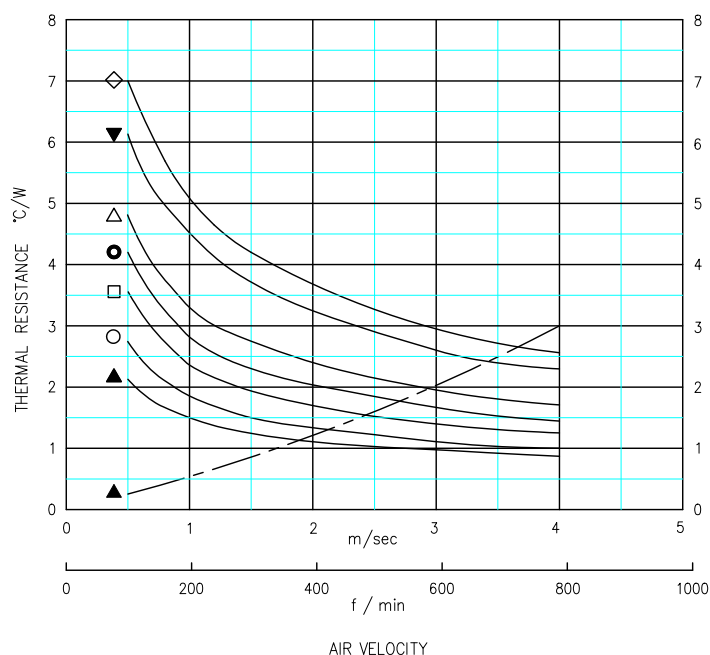
DIM



MATERIAL : A6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

MODEL	HEIGHT [h]	THICKNESS [t]	WEIGHT (grams)
UB35-6B	6	2.00	9.2
UB35-7B	7		9.9
UB35-10B	10	3.00	13.5
UB35-12B	12		14.9
UB35-15B	15		17.0
UB35-20B	20		20.5
UB35-25B	25		24.0
UB35-[h]B	[h] ≤ 7	2.00	-
	7 < [h] ≤ 25	3.00	-

DATA



- ◇ UB35-6B
- ▼ UB35-7B
- △ UB35-10B
- UB35-12B
- UB35-15B
- UB35-20B
- ▲ UB35-25B

● DUCTED CONDITION
DUMMY HEATER SIZE: 12.7 SQ
THERMAL RESISTANCE ———
PRESSURE DROP - - - -

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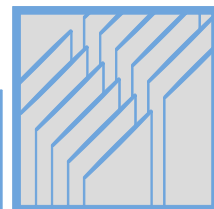
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PHONE +1(408)567-8082
FAX +1(408)567-8053
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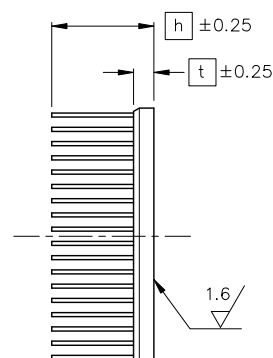
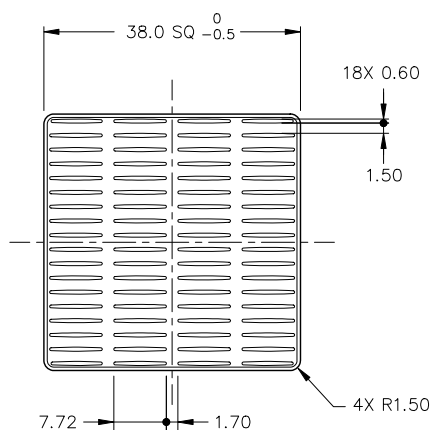
ALPHA

Low Pressure Drop and Low Thermal Resistance Heat Sink

UB38



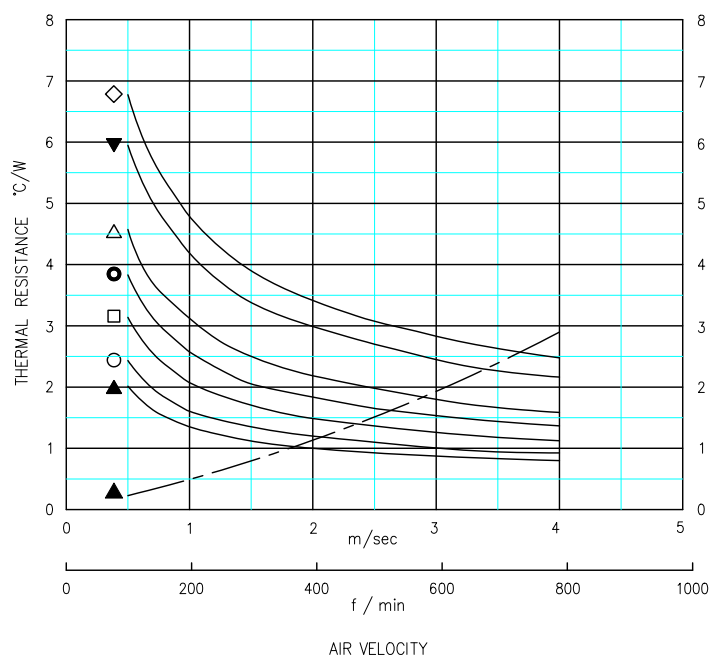
DIM



MATERIAL : A6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

MODEL	HEIGHT [h]	THICKNESS [t]	WEIGHT (grams)
UB38-6B	6	2.00	10.8
UB38-7B	7		11.6
UB38-10B	10		17.0
UB38-12B	12	3.00	18.6
UB38-15B	15		20.9
UB38-20B	20		24.8
UB38-25B	25		28.7
UB38-[h]B	[h] ≤ 7	2.00	-
	7 < [h] ≤ 25	3.00	-

DATA



- ◇ UB38-6B
- ▼ UB38-7B
- △ UB38-10B
- UB38-12B
- UB38-15B
- UB38-20B
- ▲ UB38-25B

● DUCTED CONDITION
DUMMY HEATER SIZE: 12.7 SQ
THERMAL RESISTANCE ———
PRESSURE DROP - - - - -

■ BASED ON ALPHA'S STANDARD TEST PROCEDURE.
REFER TO TECHNICAL INFORMATION.

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FAX +81(55)966 9192
E mail : alpha@micforg.co.jp
URL : <https://www.micforg.co.jp>

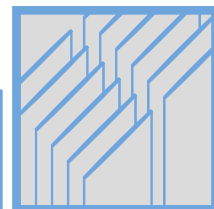
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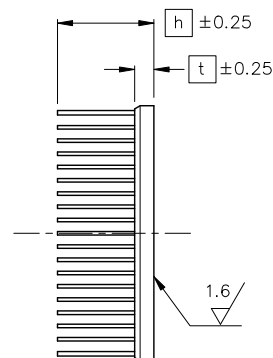
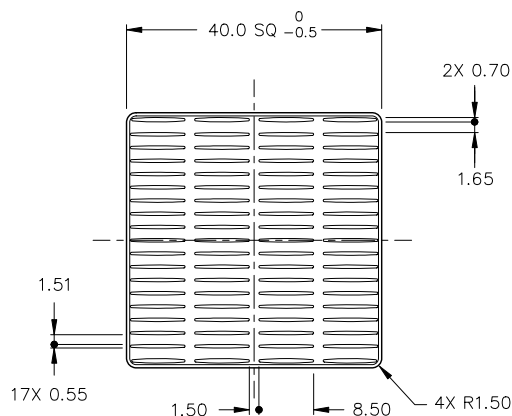
ALPHA

Low Pressure Drop and Low Thermal Resistance Heat Sink

UB40



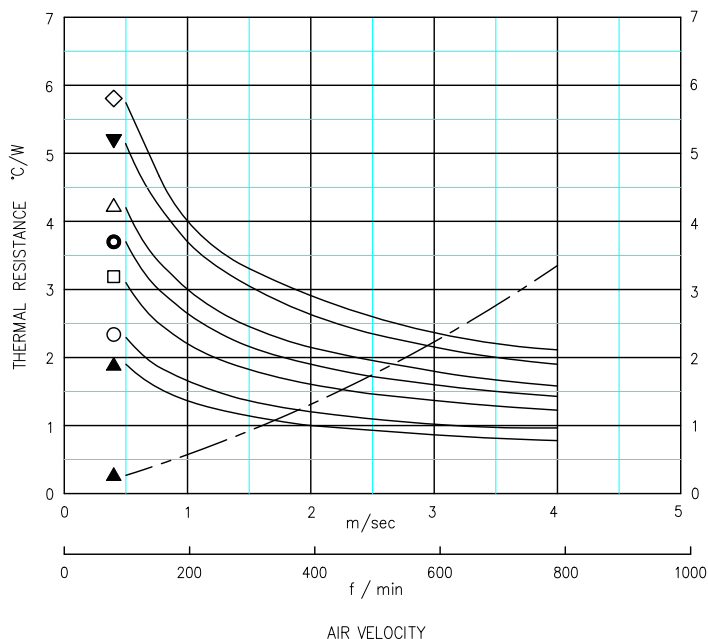
DIM



MATERIAL : A6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

MODEL	HEIGHT [h]	THICKNESS [t]	WEIGHT (grams)
UB40-6B	6	2.00	12.0
UB40-7B	7		12.9
UB40-10B	10	3.00	17.8
UB40-12B	12		19.7
UB40-15B	15		22.5
UB40-20B	20		27.3
UB40-25B	25		32.0
UB40-[h]B	[h] ≤ 7	2.00	—
	7 < [h] ≤ 25	3.00	—

DATA



- ◇ UB40-6B
- ▼ UB40-7B
- △ UB40-10B
- UB40-12B
- UB40-15B
- UB40-20B
- ▲ UB40-25B

● DUCTED CONDITION
DUMMY HEATER SIZE: 12.7 SQ
THERMAL RESISTANCE ———
PRESSURE DROP - - -

■ BASED ON ALPHA'S STANDARD TEST PROCEDURE.
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URL : <https://www.micforg.co.jp>

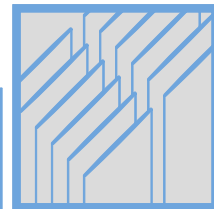
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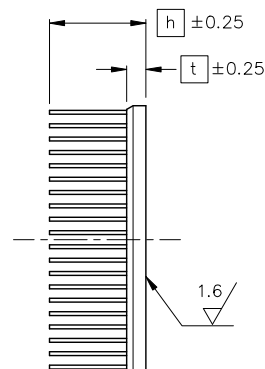
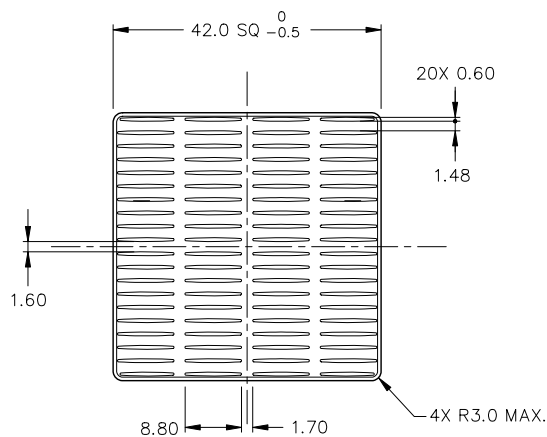
ALPHA

Low Pressure Drop and Low Thermal Resistance Heat Sink

UB42



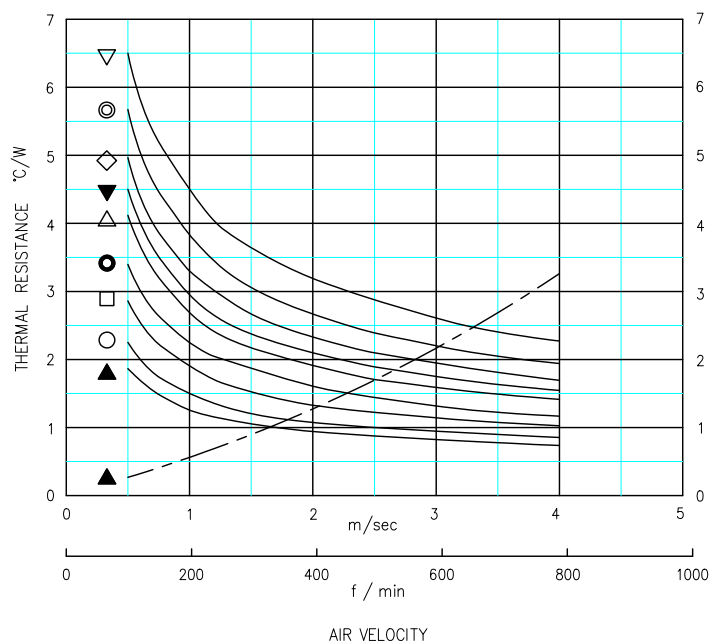
DIM



MATERIAL : A6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

MODEL	HEIGHT [h]	THICKNESS [t]	WEIGHT (grams)
UB42-6B	6	2.50	15.0
UB42-7B	7		15.9
UB42-8B	8		16.9
UB42-9B	9		17.9
UB42-10B	10	3.00	20.6
UB42-12B	12		22.6
UB42-15B	15		25.5
UB42-20B	20		30.3
UB42-25B	25		35.2
UB42-[h]B	[h] ≤ 9	2.50	—
	9 < [h] ≤ 25	3.00	—

DATA



- ▽ UB42-6B
- ⊙ UB42-7B
- ◇ UB42-8B
- ▼ UB42-9B
- △ UB42-10B
- UB42-12B
- UB42-15B
- UB42-20B
- ▲ UB42-25B

● DUCTED CONDITION
DUMMY HEATER SIZE: 12.7 SQ
THERMAL RESISTANCE ———
PRESSURE DROP - - -

■ BASED ON ALPHA'S STANDARD TEST PROCEDURE.
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FAX +81(55)966 9192
E mail : alpha@micforg.co.jp
URL : <https://www.micforg.co.jp>

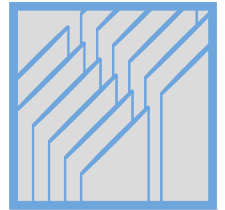
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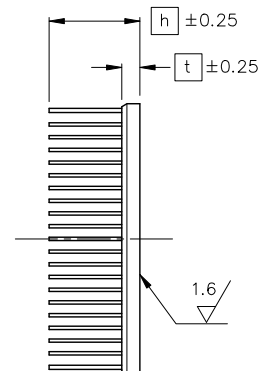
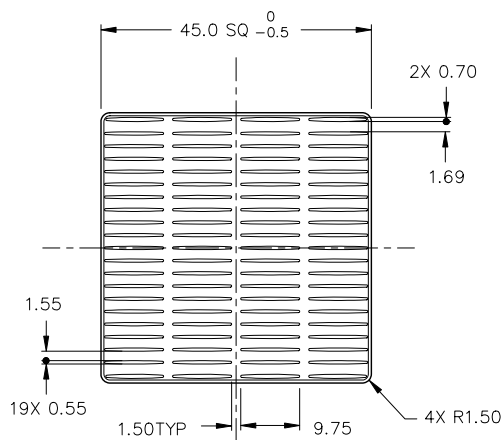
ALPHA

Low Pressure Drop and Low Thermal Resistance Heat Sink

UB45



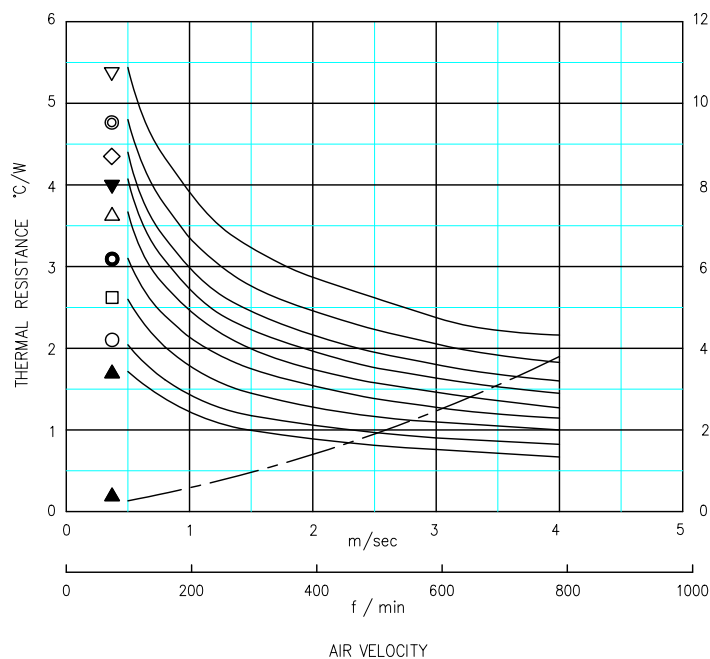
DIM



MATERIAL : A6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

MODEL	HEIGHT [h]	THICKNESS [t]	WEIGHT (grams)
UB45-6B	6	2.50	16.8
UB45-7B	7		18.0
UB45-8B	8		19.2
UB45-9B	9		20.4
UB45-10B	10	3.00	21.8
UB45-12B	12		24.3
UB45-15B	15		28.0
UB45-20B	20		34.3
UB45-25B	25		40.5
UB45-[h]B	[h] ≤ 9	2.50	-
	9 < [h] ≤ 25	3.00	-

DATA



- ▽ UB45-6B
- ⊙ UB45-7B
- ◇ UB45-8B
- ▼ UB45-9B
- △ UB45-10B
- UB45-12B
- UB45-15B
- UB45-20B
- ▲ UB45-25B

● DUCTED CONDITION
DUMMY HEATER SIZE: 12.7 SQ
THERMAL RESISTANCE ———
PRESSURE DROP - - -

■ BASED ON ALPHA'S STANDARD TEST PROCEDURE.
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FAX +81(55)966 9192
E mail : alpha@micforg.co.jp
URL : <https://www.micforg.co.jp>

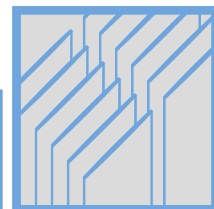
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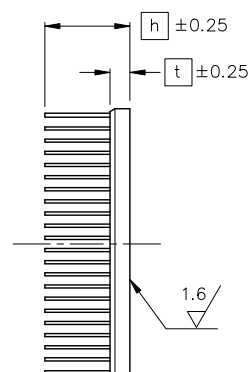
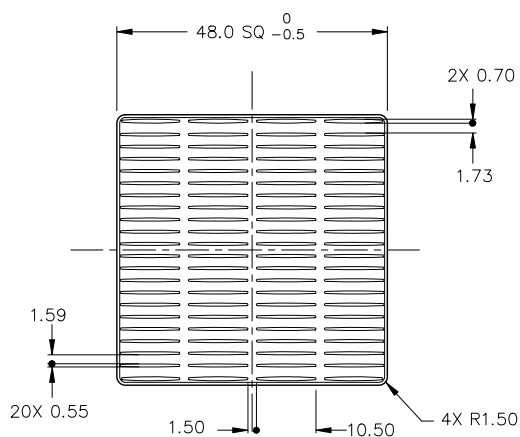
ALPHA

Low Pressure Drop and Low Thermal Resistance Heat Sink

UB48



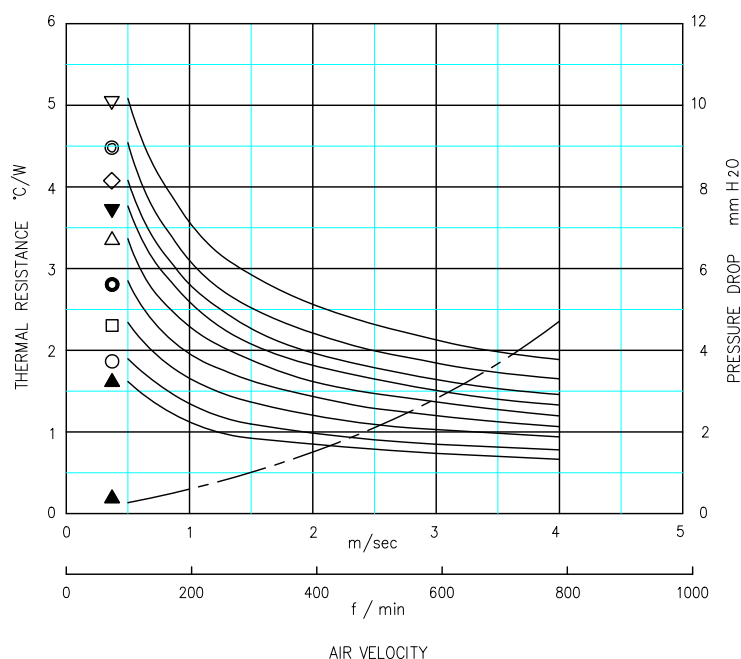
DIM



MATERIAL : A6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

MODEL	HEIGHT [h]	THICKNESS [t]	WEIGHT (grams)
UB48-6B	6	2.50	19.4
UB48-7B	7		20.5
UB48-8B	8		21.7
UB48-9B	9		22.8
UB48-10B	10	3.50	28.5
UB48-12B	12		31.1
UB48-15B	15		35.0
UB48-20B	20		41.5
UB48-25B	25		48.0
UB48-[h]B	[h] ≤ 9	2.50	-
	9 < [h] ≤ 25	3.50	-

DATA



- ▽ UB48-6B
- ⊙ UB48-7B
- ◇ UB48-8B
- ▼ UB48-9B
- △ UB48-10B
- UB48-12B
- UB48-15B
- UB48-20B
- ▲ UB48-25B

● DUCTED CONDITION
DUMMY HEATER SIZE: 12.7 SQ
THERMAL RESISTANCE ———
PRESSURE DROP - - -

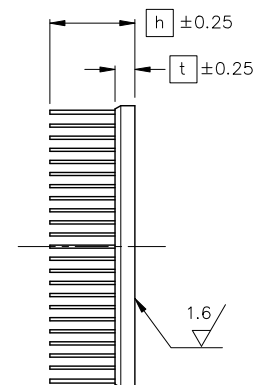
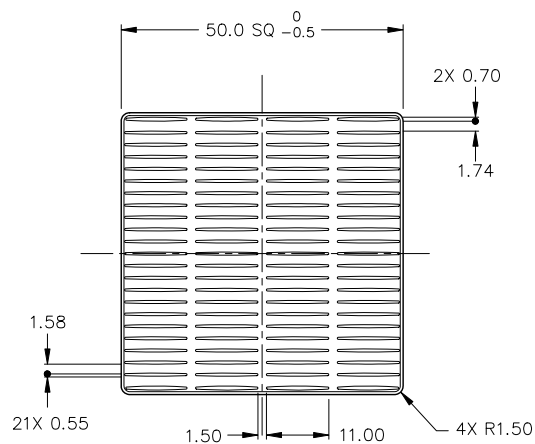
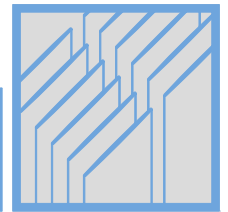
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FAX +81(55)966 9192
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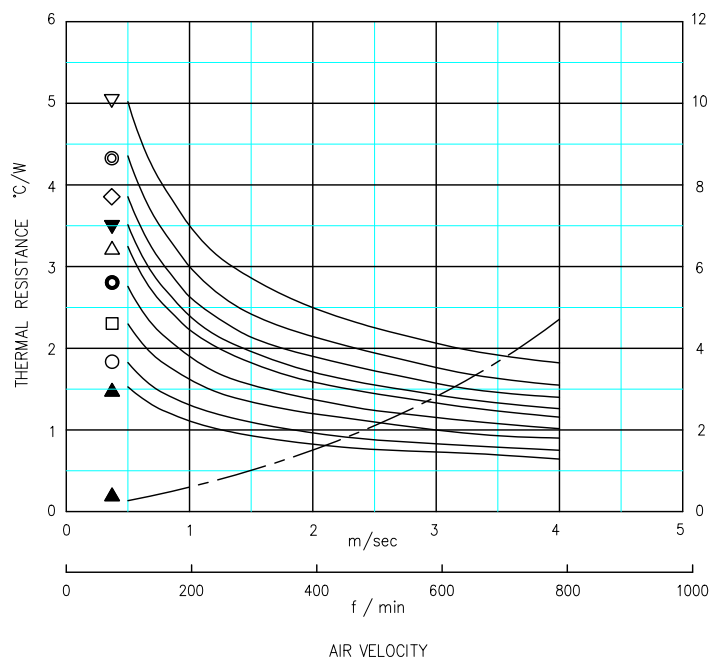
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FAX +1(408)567-8053
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MATERIAL : A6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

MODEL	HEIGHT $[h]$	THICKNESS $[t]$	WEIGHT (grams)
UB50-6B	6	2.50	21.0
UB50-7B	7		22.3
UB50-8B	8		23.7
UB50-9B	9		25.0
UB50-10B	10	3.50	30.5
UB50-12B	12		34.6
UB50-15B	15		38.0
UB50-20B	20		45.5
UB50-25B	25		53.0
UB50- $[h]$ B	$[h] \leq 9$		2.50
	$9 < [h] \leq 25$	3.50	—



- | | |
|---|----------|
| ▽ | UB50-6B |
| ◎ | UB50-7B |
| ◇ | UB50-8B |
| ▼ | UB50-9B |
| △ | UB50-10B |
| ● | UB50-12B |
| □ | UB50-15B |
| ○ | UB50-20B |
| ▲ | UB50-25B |

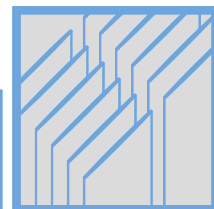
DUCTED CONDITION
 DUMMY HEATER SIZE: 12.7 SQ
 THERMAL RESISTANCE _____
 PRESURE DROP _____

■ BASED ON ALPHA'S STANDARD TEST PROCEDURE.
REFER TO TECHNICAL INFORMATION.

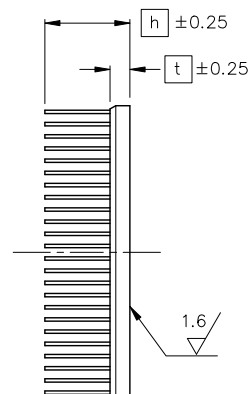
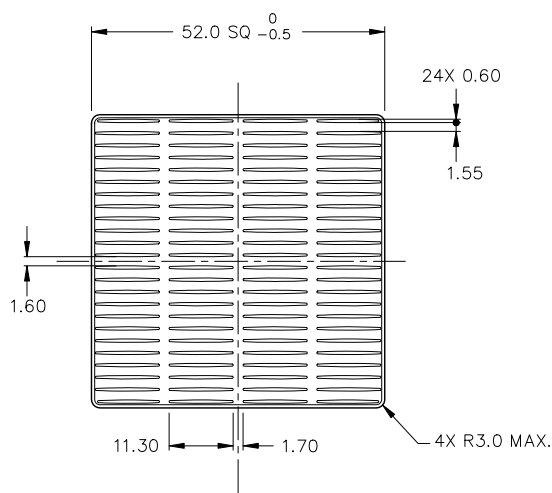
ALPHA

Low Pressure Drop and Low Thermal Resistance Heat Sink

UB52



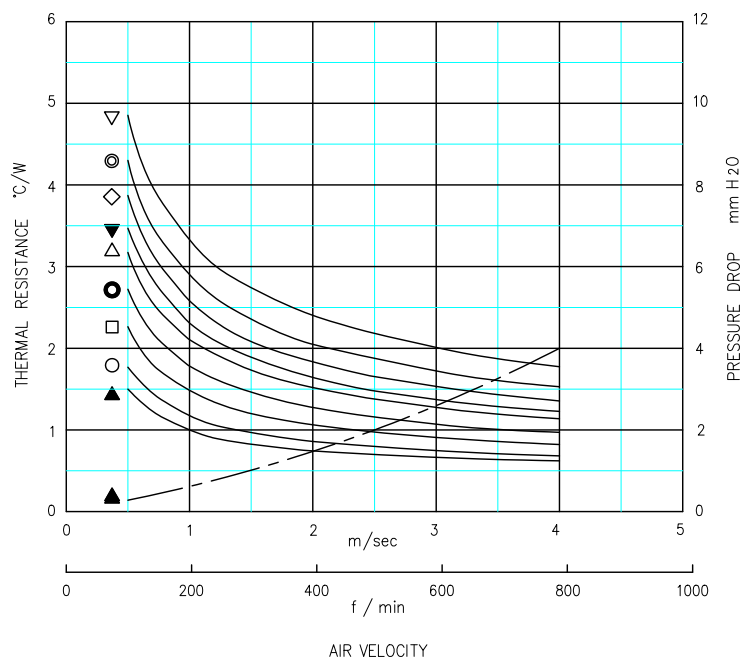
DIM



MATERIAL : A6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

MODEL	HEIGHT [h]	THICKNESS [t]	WEIGHT (grams)
UB52-6B	6	2.50	23.0
UB52-7B	7		24.5
UB52-8B	8		26.0
UB52-9B	9		27.5
UB52-10B	10	3.50	35.0
UB52-12B	12		37.7
UB52-15B	15		42.2
UB52-20B	20		49.7
UB52-25B	25		57.2
UB52-[h]B	[h] ≤ 9	2.50	-
	9 < [h] ≤ 25	3.50	-

DATA



- ▽ UB52-6B
- ⊙ UB52-7B
- ◇ UB52-8B
- ▼ UB52-9B
- △ UB52-10B
- UB52-12B
- UB52-15B
- UB52-20B
- ▲ UB52-25B

● DUCTED CONDITION
DUMMY HEATER SIZE: 12.7 SQ
THERMAL RESISTANCE ———
PRESSURE DROP - - -

■ BASED ON ALPHA'S STANDARD TEST PROCEDURE.
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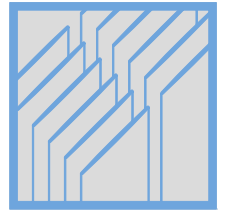
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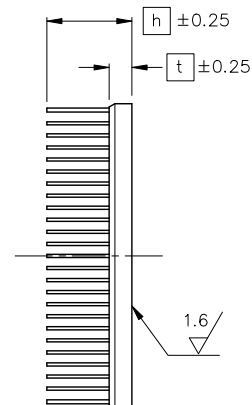
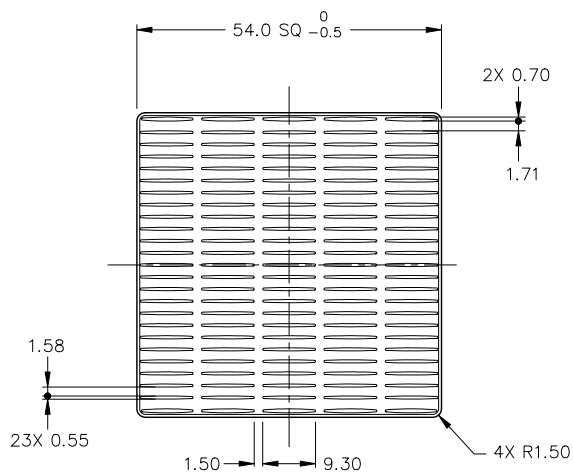
ALPHA

Low Pressure Drop and Low Thermal Resistance Heat Sink

UB54



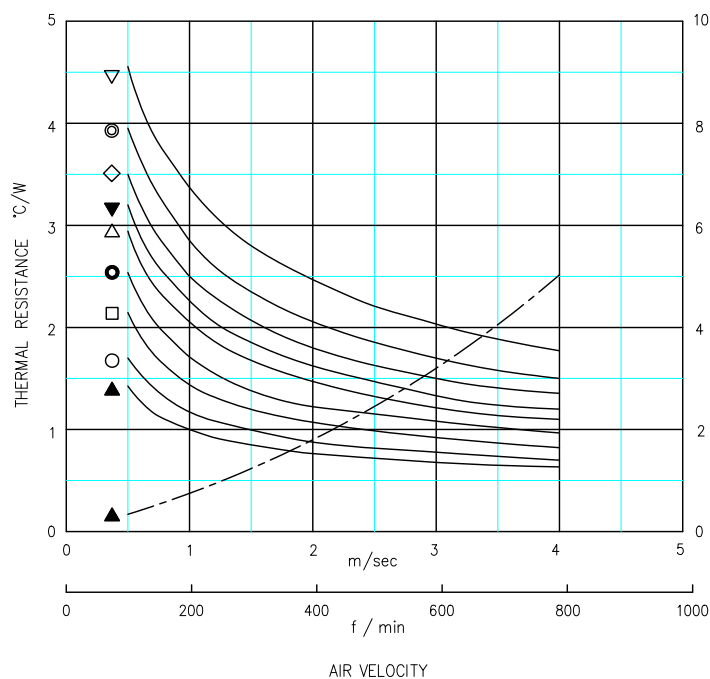
DIM



MATERIAL : A6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

MODEL	HEIGHT [h]	THICKNESS [t]	WEIGHT (grams)
UB54-6B	6	3.00	28.1
UB54-7B	7		29.6
UB54-8B	8		31.0
UB54-9B	9		32.4
UB54-10B	10	4.00	39.3
UB54-12B	12		42.6
UB54-15B	15		47.5
UB54-20B	20		55.8
UB54-25B	25		64.0
UB54-[h]B	[h] ≤ 9	3.00	-
	9 < [h] ≤ 25	4.00	-

DATA



- ▽ UB54-6B
- ⊙ UB54-7B
- ◇ UB54-8B
- ▼ UB54-9B
- △ UB54-10B
- UB54-12B
- UB54-15B
- UB54-20B
- ▲ UB54-25B

● DUCTED CONDITION
DUMMY HEATER SIZE: 12.7 SQ
THERMAL RESISTANCE ———
PRESSURE DROP - - -

■ BASED ON ALPHA'S STANDARD TEST PROCEDURE.
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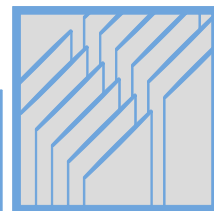
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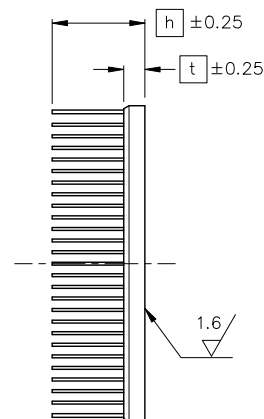
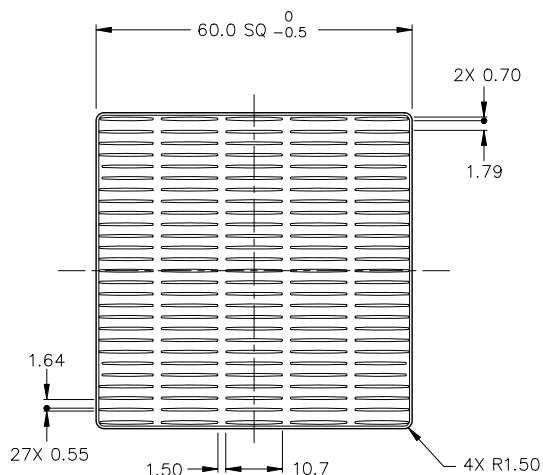
ALPHA

Low Pressure Drop and Low Thermal Resistance Heat Sink

UB60



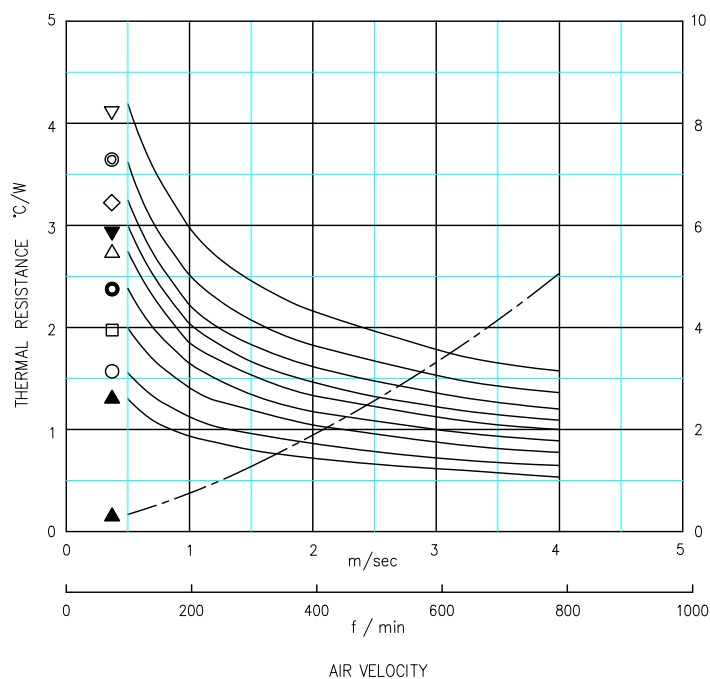
DIM



MATERIAL : A6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

MODEL	HEIGHT [h]	THICKNESS [t]	WEIGHT (grams)
UB60-6B	6	3.00	35.5
UB60-7B	7		37.3
UB60-8B	8		39.2
UB60-9B	9		41.0
UB60-10B	10	4.00	49.5
UB60-12B	12		52.9
UB60-15B	15		58.0
UB60-20B	20		66.5
UB60-25B	25		75.0
UB60-[h]B	[h] ≤ 9	3.00	-
	9 < [h] ≤ 25	4.00	-

DATA



- ▽ UB60-6B
- ⊙ UB60-7B
- ◇ UB60-8B
- ▼ UB60-9B
- △ UB60-10B
- UB60-12B
- UB60-15B
- UB60-20B
- ▲ UB60-25B

● DUCTED CONDITION
DUMMY HEATER SIZE: 12.7 SQ
THERMAL RESISTANCE ———
PRESSURE DROP - - -

■ BASED ON ALPHA'S STANDARD TEST PROCEDURE.
REFER TO TECHNICAL INFORMATION.

Alpha Company Ltd.

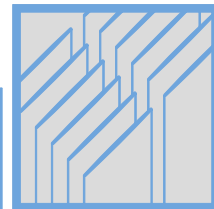
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E mail : alpha@micforg.co.jp
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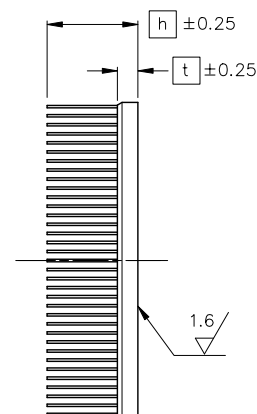
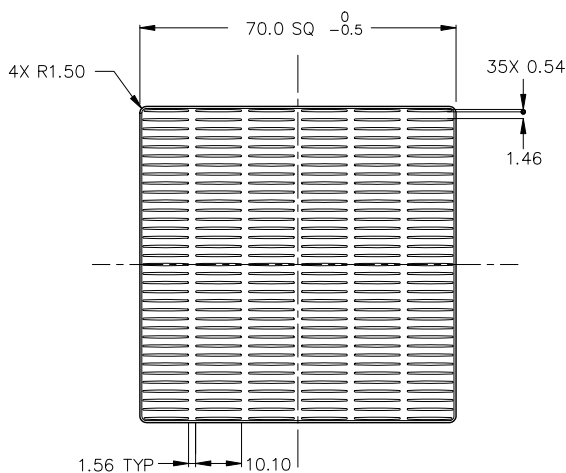
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ALPHA Low Pressure Drop and Low Thermal Resistance Heat Sink

UB70



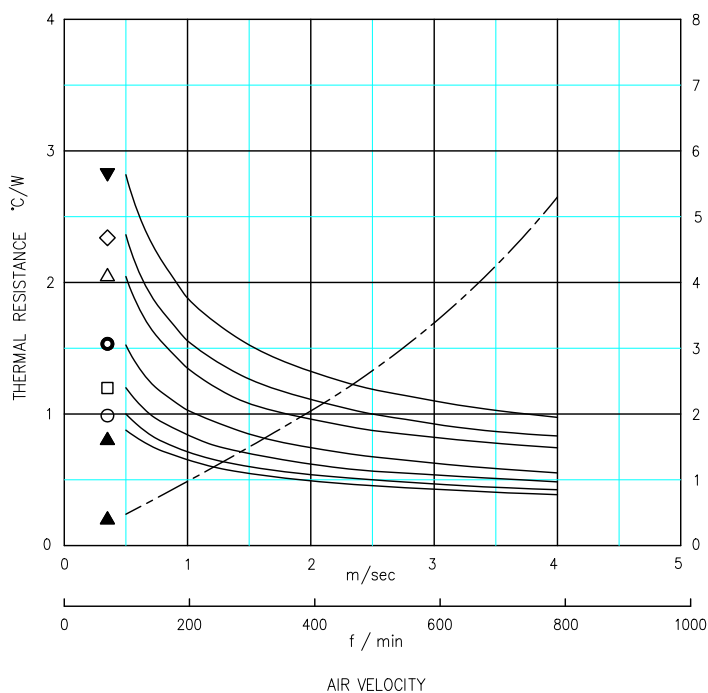
DIM



MATERIAL : A6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

MODEL	HEIGHT [h]	THICKNESS [t]	WEIGHT (grams)
UB70-8B	8	3.00	52.5
UB70-10B	10		57.9
UB70-12B	12		63.3
UB70-15B	15		86.9
UB70-20B	20	4.50	100.4
UB70-25B	25		113.9
UB70-30B	30		127.5
UB70-[h]B	$[h] \leq 12$	3.00	-
	$12 < [h] \leq 30$	4.50	-

DATA



▼ UB70-8B

◇ UB70-10B

△ UB70-12B

● UB70-15B

□ UB70-20B

○ UB70-25B

▲ UB70-30B

● DUCTED CONDITION

DUMMY HEATER SIZE: 12.7 SQ

THERMAL RESISTANCE

PRESSURE DROP

■ BASED ON ALPHA'S STANDARD TEST PROCEDURE.
REFER TO TECHNICAL INFORMATION.

Alpha Company Ltd.

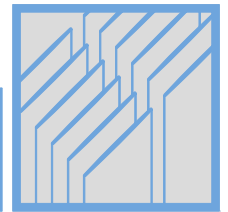
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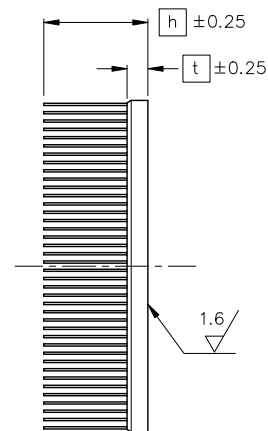
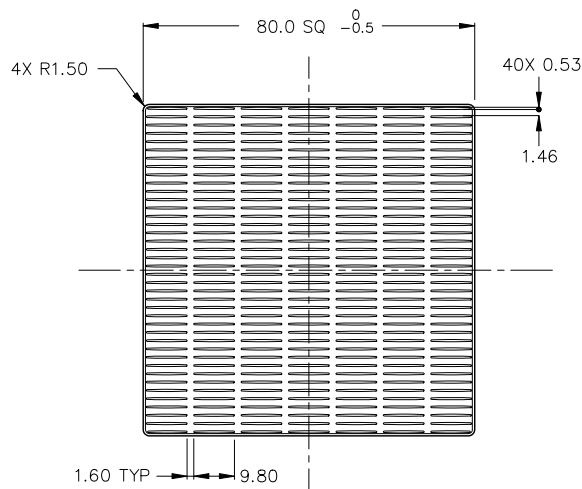
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ALPHA Low Pressure Drop and Low Thermal Resistance Heat Sink

UB80



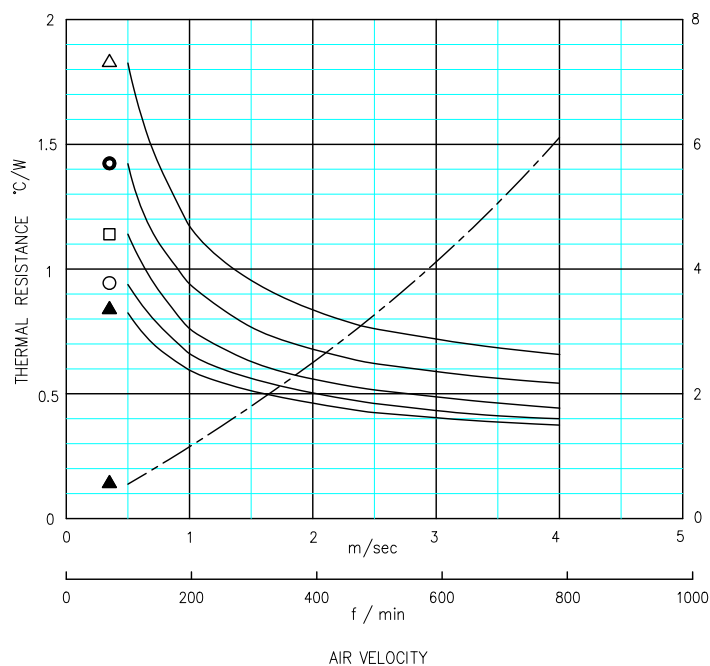
DIM



MATERIAL : A6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

MODEL	HEIGHT [h]	THICKNESS [t]	WEIGHT (grams)
UB80-12B	12	4.00	95.6
UB80-15B	15	4.00	119.6
UB80-20B	20	5.00	136.8
UB80-25B	25	5.00	154.0
UB80-30B	30	5.00	171.2
UB80-[h]B	$h \leq 12$	4.00	-
	$12 < h \leq 30$	5.00	-

DATA



- △ UB80-12B
- UB80-15B
- UB80-20B
- UB80-25B
- ▲ UB80-30B

● DUCTED CONDITION
DUMMY HEATER SIZE: 12.7 SQ
THERMAL RESISTANCE ———
PRESSURE DROP - - - - -

■ BASED ON ALPHA'S STANDARD TEST PROCEDURE.
REFER TO TECHNICAL INFORMATION.

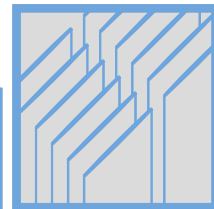
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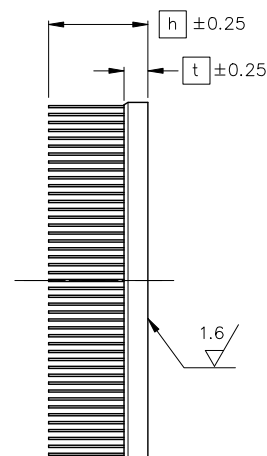
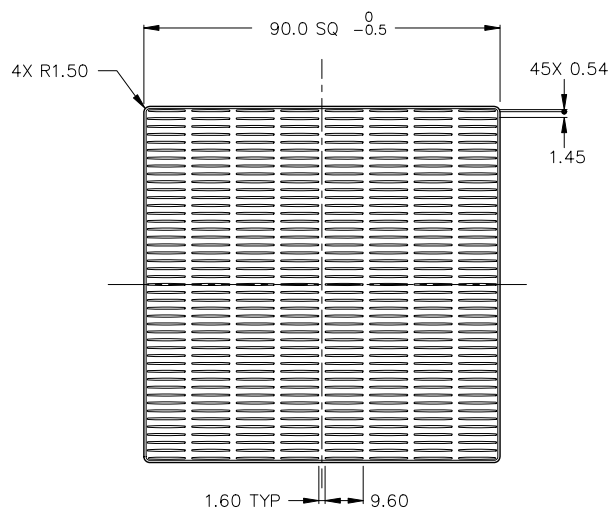
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ALPHA Low Pressure Drop and Low Thermal Resistance Heat Sink UB90



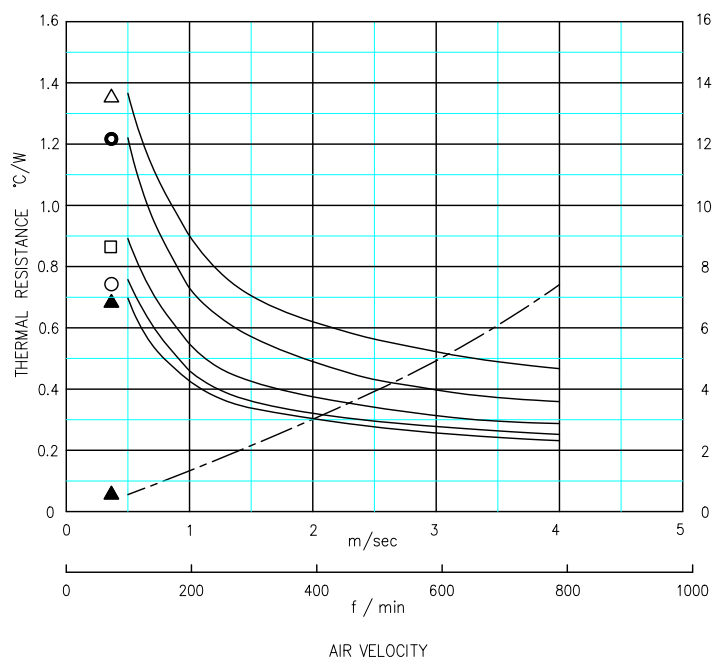
DIM



MATERIAL : A6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

MODEL	HEIGHT [h]	THICKNESS [t]	WEIGHT (grams)
UB90-12B	12	4.00	122
UB90-15B	15	4.00	169
UB90-20B	20	6.00	191
UB90-25B	25	6.00	213
UB90-30B	30	6.00	235
UB90-[h]B	$[h] \leq 12$	4.00	-
	$12 < [h] \leq 30$	6.00	-

DATA



- △ UB90-12B
- UB90-15B
- UB90-20B
- UB90-25B
- ▲ UB90-30B

● DUCTED CONDITION
DUMMY HEATER SIZE: 25.4 SQ
THERMAL RESISTANCE ———
PRESSURE DROP - - - - -

■ BASED ON ALPHA'S STANDARD TEST PROCEDURE.
REFER TO TECHNICAL INFORMATION.

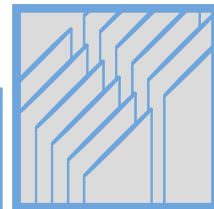
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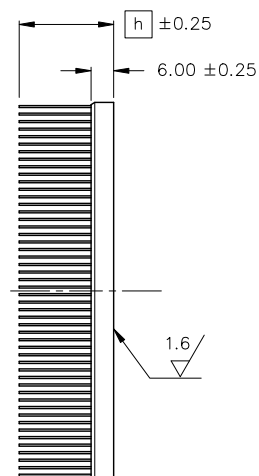
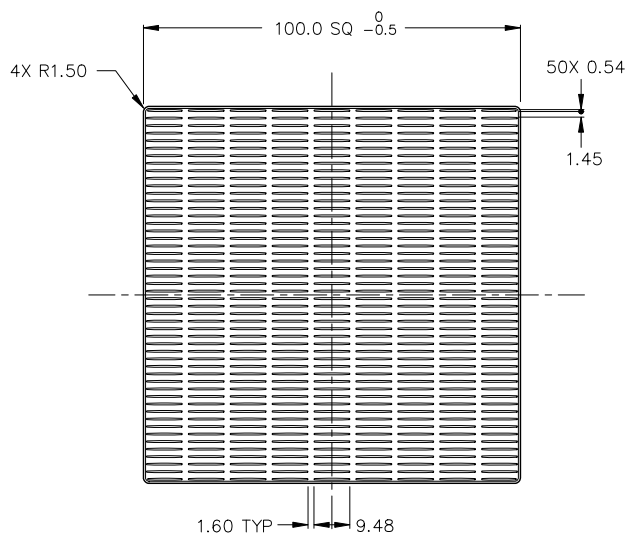
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ALPHA Low Pressure Drop and Low Thermal Resistance Heat Sink UB100



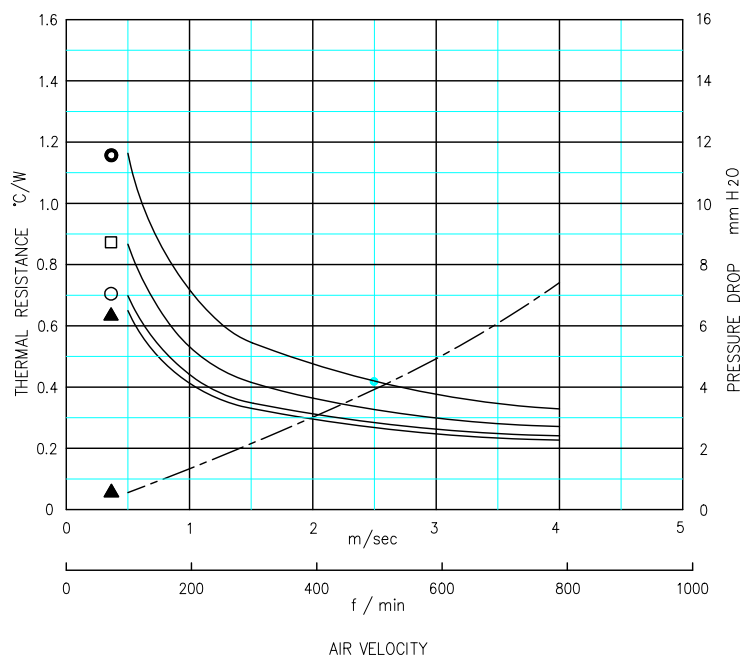
DIM



MATERIAL : A6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

MODEL	HEATSINK HEIGHT [h]	WEIGHT (grams)
UB100-15B	15	209
UB100-20B	20	236
UB100-25B	25	264
UB100-30B	30	291

DATA



- UB100-15B
- UB100-20B
- UB100-25B
- ▲ UB100-30B

● DUCTED CONDITION
DUMMY HEATER SIZE: 25.4 SQ
THERMAL RESISTANCE ———
PRESSURE DROP - - - - -

■ BASED ON ALPHA'S STANDARD TEST PROCEDURE.
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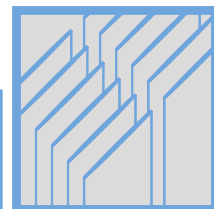
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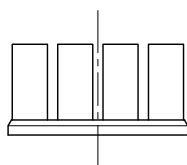
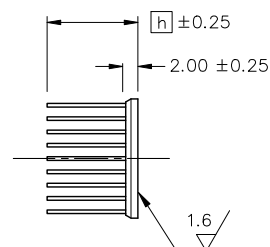
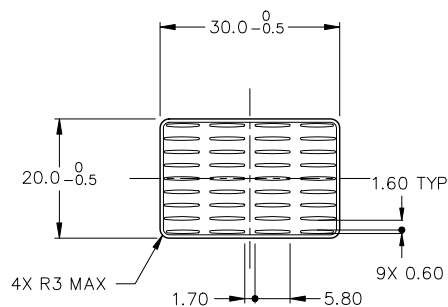
ALPHA

Low Pressure Drop and Low Thermal Resistance Heat Sink

UB2030



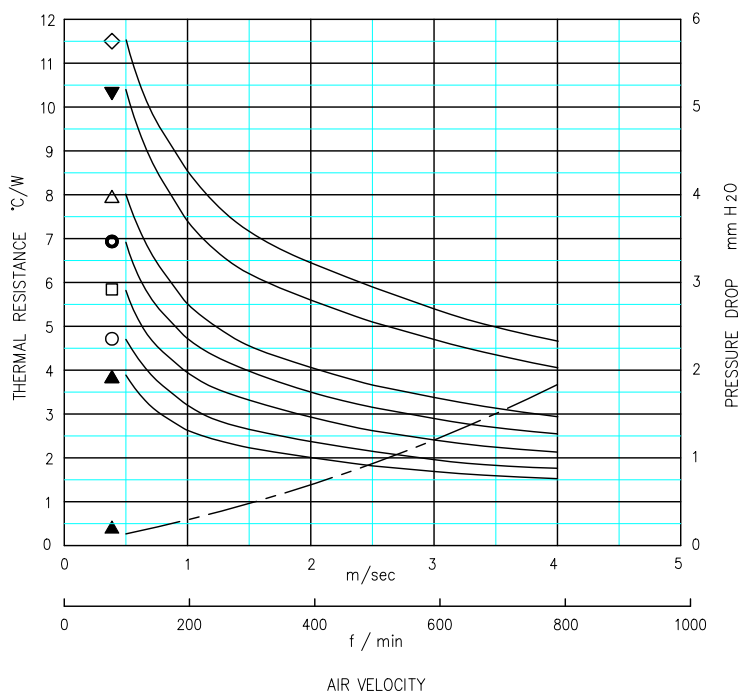
DIM



MATERIAL : A6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

MODEL	HEATSINK HEIGHT [h]	WEIGHT (grams)
UB2030-6B	6	4.2
UB2030-7B	7	4.5
UB2030-10B	10	5.3
UB2030-12B	12	5.9
UB2030-15B	15	6.8
UB2030-20B	20	8.2
UB2030-25B	25	9.6

DATA



- ◇ UB2030-6B
- ▼ UB2030-7B
- △ UB2030-10B
- UB2030-12B
- UB2030-15B
- UB2030-20B
- ▲ UB2030-25B

● DUCTED CONDITION
DUMMY HEATER SIZE: 12.7 SQ
THERMAL RESISTANCE ———
PRESSURE DROP - - - - -

■ BASED ON ALPHA'S STANDARD TEST PROCEDURE.
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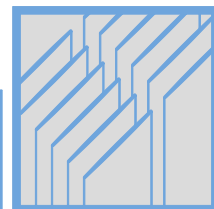
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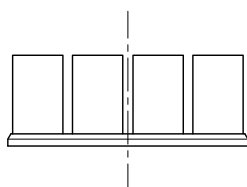
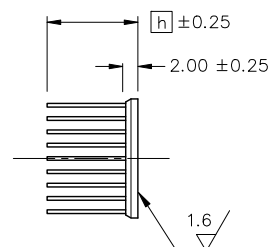
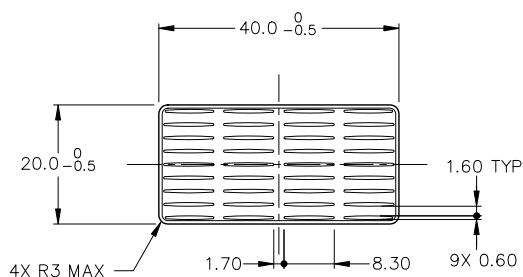
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Low Pressure Drop and Low Thermal Resistance Heat Sink

UB2040



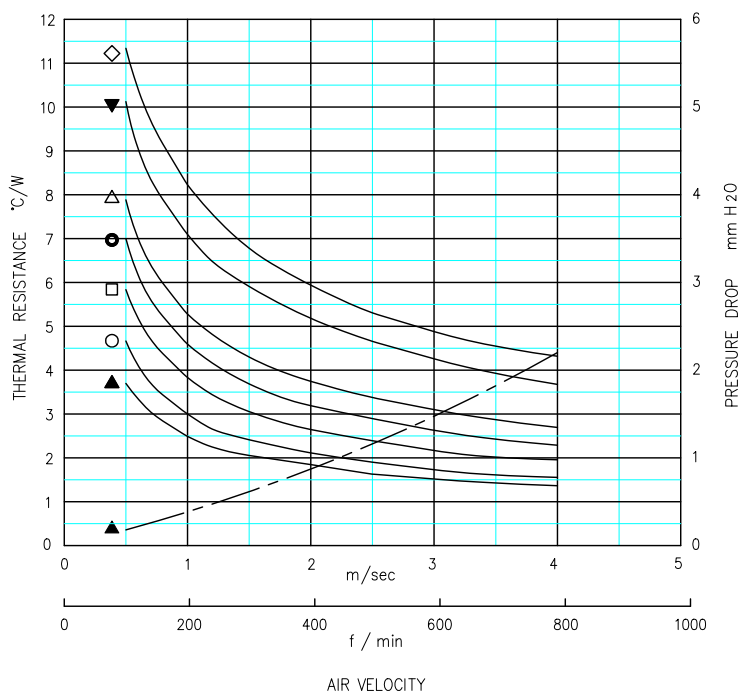
DIM



MATERIAL : A6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

MODEL	HEATSINK HEIGHT [h]	WEIGHT (grams)
UB2040-6B	6	5.9
UB2040-7B	7	6.3
UB2040-10B	10	7.5
UB2040-12B	12	8.3
UB2040-15B	15	9.6
UB2040-20B	20	11.6
UB2040-25B	25	13.7

DATA



- ◇ UB2040-6B
- ▼ UB2040-7B
- △ UB2040-10B
- UB2040-12B
- UB2040-15B
- UB2040-20B
- ▲ UB2040-25B

● DUCTED CONDITION
DUMMY HEATER SIZE: 12.7 SQ
THERMAL RESISTANCE ———
PRESSURE DROP - - - - -

■ BASED ON ALPHA'S STANDARD TEST PROCEDURE.
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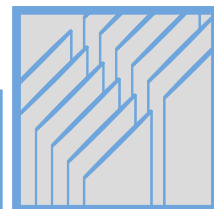
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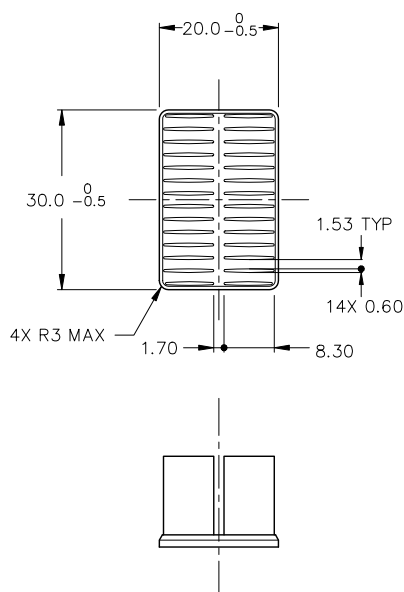
ALPHA

Low Pressure Drop and Low Thermal Resistance Heat Sink

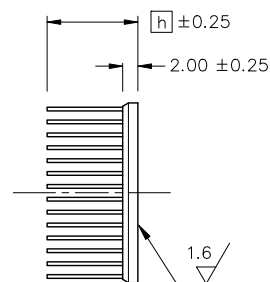
UB3020



DIM

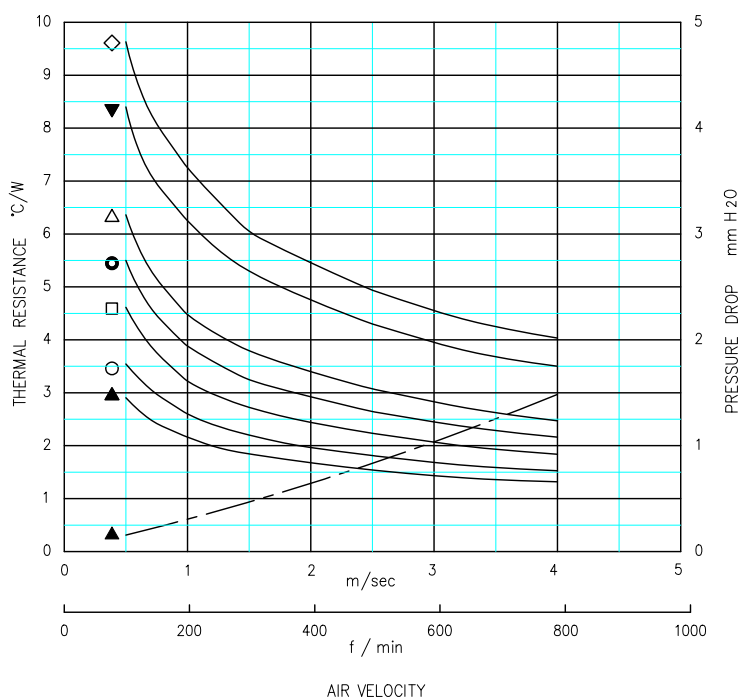


MATERIAL : A6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm



MODEL	HEATSINK HEIGHT [h]	WEIGHT (grams)
UB3020-6B	6	4.3
UB3020-7B	7	4.7
UB3020-10B	10	5.6
UB3020-12B	12	6.3
UB3020-15B	15	7.2
UB3020-20B	20	8.8
UB3020-25B	25	10.4

DATA



- ◇ UB3020-6B
- ▼ UB3020-7B
- △ UB3020-10B
- UB3020-12B
- UB3020-15B
- UB3020-20B
- ▲ UB3020-25B

● DUCTED CONDITION
DUMMY HEATER SIZE: 12.7 SQ
THERMAL RESISTANCE ———
PRESSURE DROP - - - -

■ BASED ON ALPHA'S STANDARD TEST PROCEDURE.
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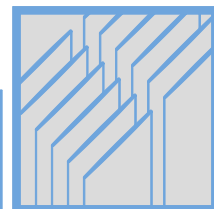
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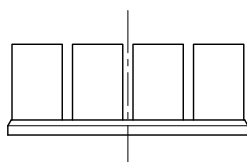
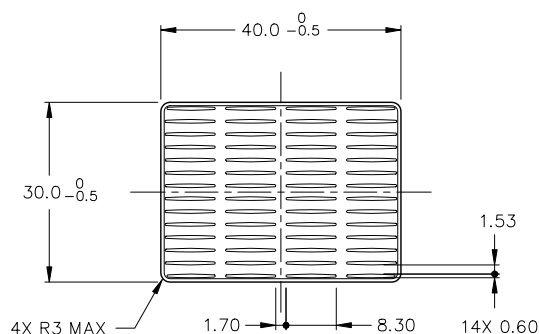
ALPHA

Low Pressure Drop and Low Thermal Resistance Heat Sink

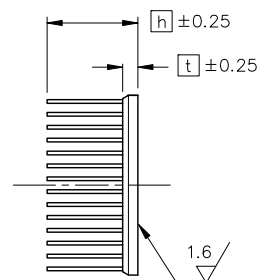
UB3040



DIM

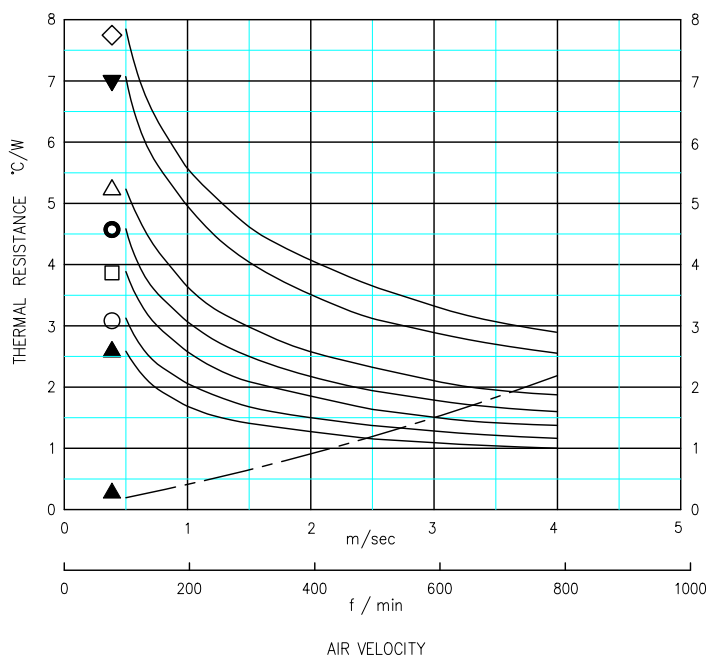


MATERIAL : A6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm



MODEL	HEIGHT [h]	THICKNESS [t]	WEIGHT (grams)
UB3040-6B	6	2.00	8.8
UB3040-7B	7		9.4
UB3040-10B	10		12.6
UB3040-12B	12	2.50	13.9
UB3040-15B	15		15.8
UB3040-20B	20		19.0
UB3040-25B	25		22.2
UB3040-[h]B	[h] ≤ 7	2.00	-
	7 < [h] ≤ 35	2.50	-

DATA



- ◇ UB3040-6B
- ▼ UB3040-7B
- △ UB3040-10B
- UB3040-12B
- UB3040-15B
- UB3040-20B
- ▲ UB3040-25B

● DUCTED CONDITION
DUMMY HEATER SIZE: 12.7 SQ
THERMAL RESISTANCE ———
PRESSURE DROP - - -

■ BASED ON ALPHA'S STANDARD TEST PROCEDURE.
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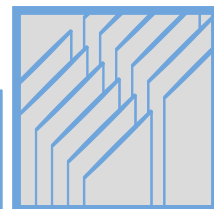
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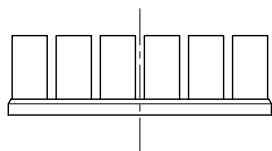
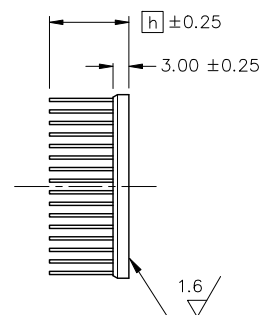
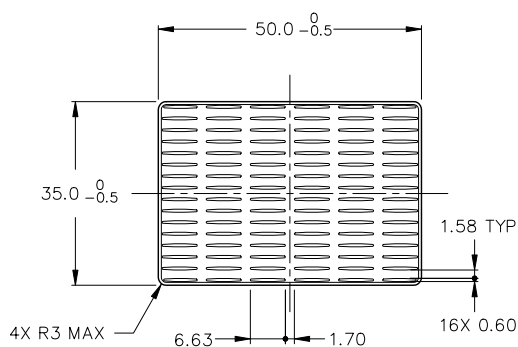
ALPHA

Low Pressure Drop and Low Thermal Resistance Heat Sink

UB3550



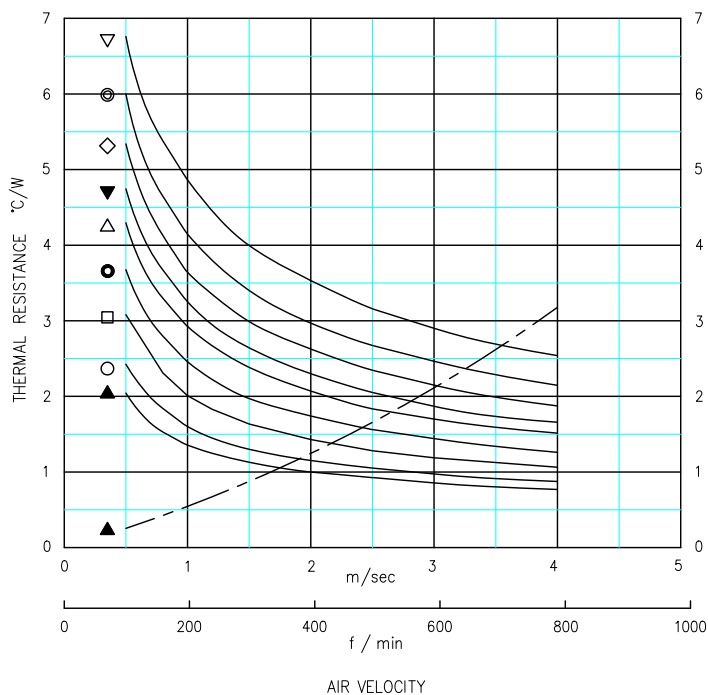
DIM



MATERIAL : A6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

MODEL	HEATSINK HEIGHT [h]	WEIGHT (grams)
UB3550-6B	6	16.6
UB3550-7B	7	17.5
UB3550-8B	8	18.3
UB3550-9B	9	19.2
UB3550-10B	10	20.1
UB3550-12B	12	21.8
UB3550-15B	15	24.4
UB3550-20B	20	28.8
UB3550-25B	25	33.1

DATA



- ▽ UB3550-6B
- ⊙ UB3550-7B
- ◇ UB3550-8B
- ▼ UB3550-9B
- △ UB3550-10B
- UB3550-12B
- UB3550-15B
- UB3550-20B
- ▲ UB3550-25B

● DUCTED CONDITION
DUMMY HEATER SIZE: 12.7 SQ
THERMAL RESISTANCE ———
PRESSURE DROP - - -

■ BASED ON ALPHA'S STANDARD TEST PROCEDURE.
REFER TO TECHNICAL INFORMATION.

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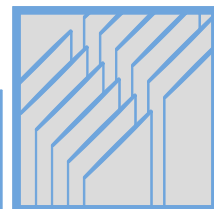
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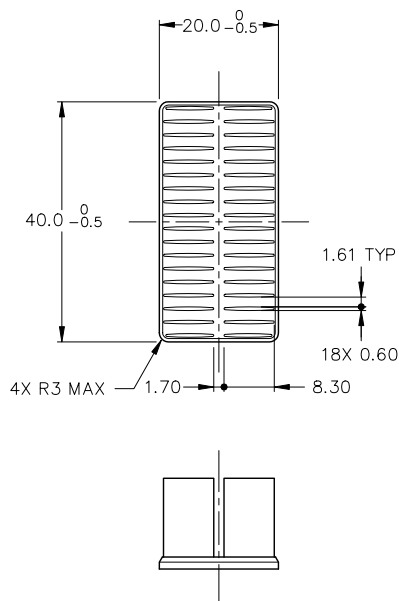
ALPHA

Low Pressure Drop and Low Thermal Resistance Heat Sink

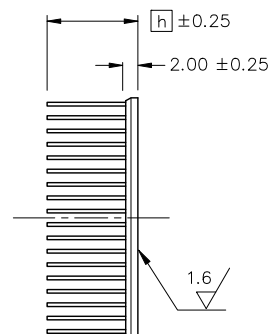
UB4020



DIM

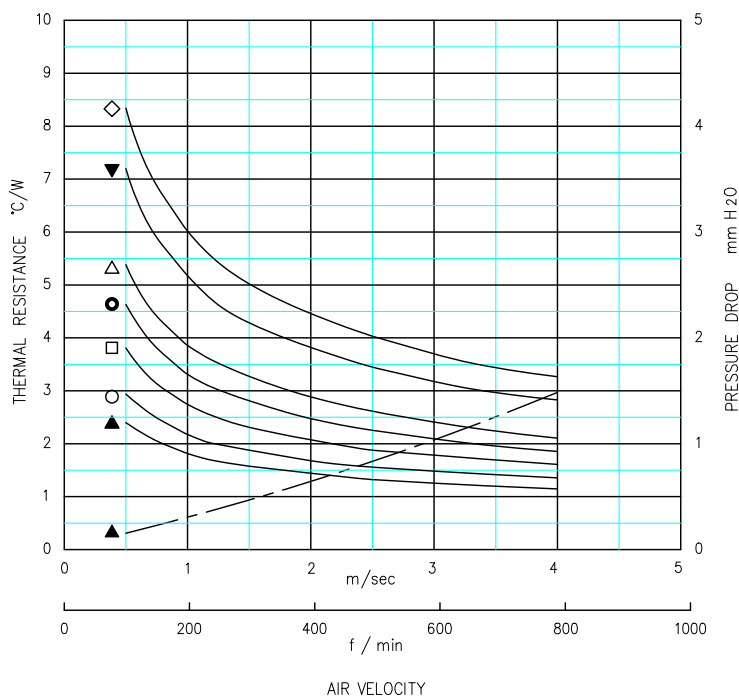


MATERIAL : A6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm



MODEL	HEATSINK HEIGHT [h]	WEIGHT (grams)
UB4020-6B	6	5.9
UB4020-7B	7	6.3
UB4020-10B	10	7.5
UB4020-12B	12	8.3
UB4020-15B	15	9.6
UB4020-20B	20	11.6
UB4020-25B	25	13.7

DATA



- ◇ UB4020-6B
- ▼ UB4020-7B
- △ UB4020-10B
- UB4020-12B
- UB4020-15B
- UB4020-20B
- ▲ UB4020-25B

● DUCTED CONDITION
DUMMY HEATER SIZE: 12.7 SQ
THERMAL RESISTANCE ———
PRESSURE DROP - - - -

■ BASED ON ALPHA'S STANDARD TEST PROCEDURE.
REFER TO TECHNICAL INFORMATION.

Alpha Company Ltd.

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FAX +81(55)966 9192
E mail : alpha@micforg.co.jp
URL : <https://www.micforg.co.jp>

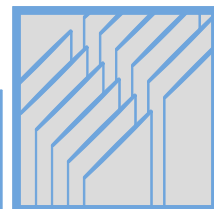
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E mail : sales@alphanovatech.com
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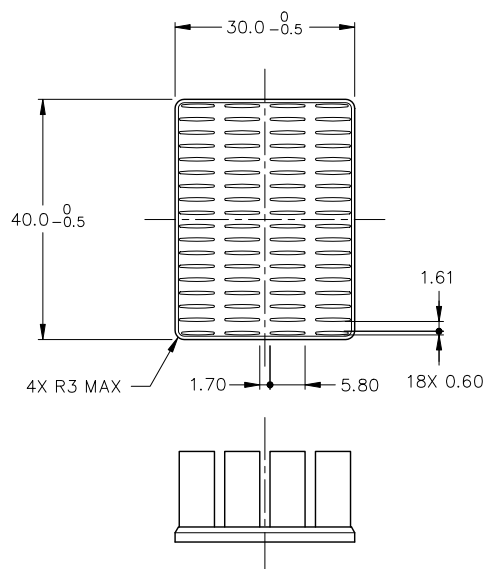
ALPHA

Low Pressure Drop and Low Thermal Resistance Heat Sink

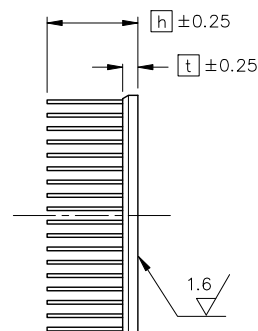
UB4030



DIM

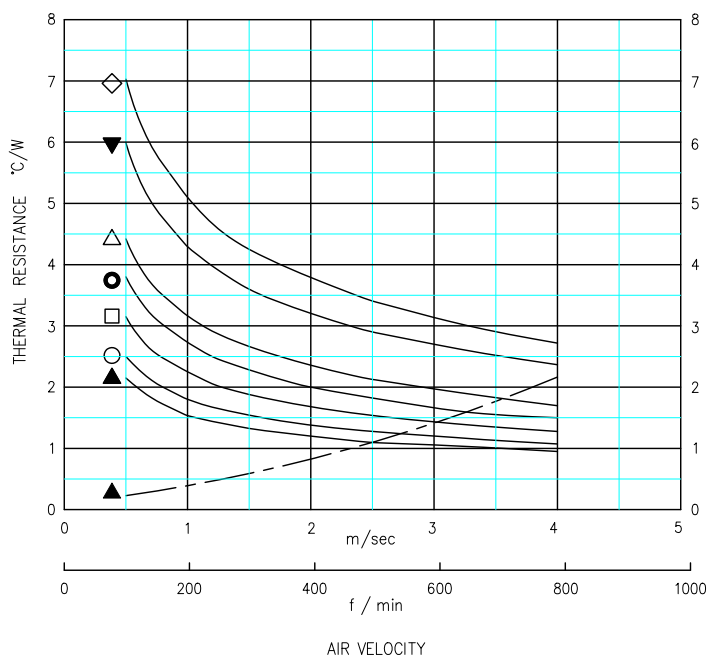


MATERIAL : A6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm



MODEL	HEIGHT [h]	THICKNESS [t]	WEIGHT (grams)
UB4030-6B	6	2.00	8.5
UB4030-7B	7		9.1
UB4030-10B	10		12.1
UB4030-12B	12	2.50	13.2
UB4030-15B	15		14.9
UB4030-20B	20		17.8
UB4030-25B	25		20.6
UB4030-[h]B	[h] ≤ 7	2.00	-
	7 < [h] ≤ 35	2.50	-

DATA



- ◇ UB4030-6B
- ▼ UB4030-7B
- △ UB4030-10B
- UB4030-12B
- UB4030-15B
- UB4030-20B
- ▲ UB4030-25B

● DUCTED CONDITION
DUMMY HEATER SIZE: 12.7 SQ
THERMAL RESISTANCE ———
PRESSURE DROP - - -

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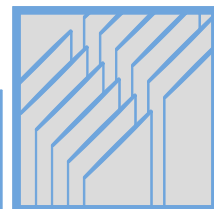
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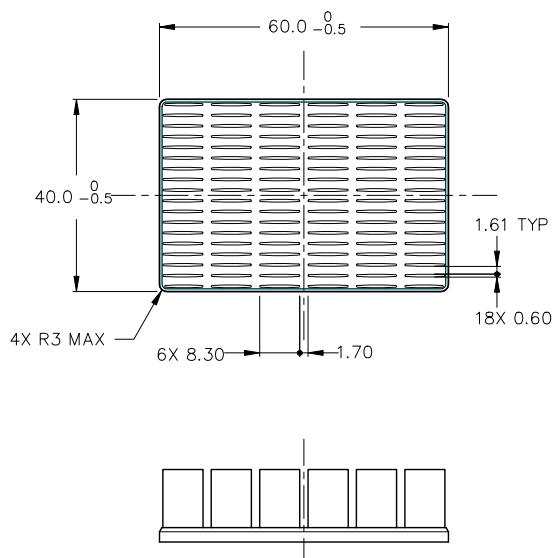
ALPHA

Low Pressure Drop and Low Thermal Resistance Heat Sink

UB4060



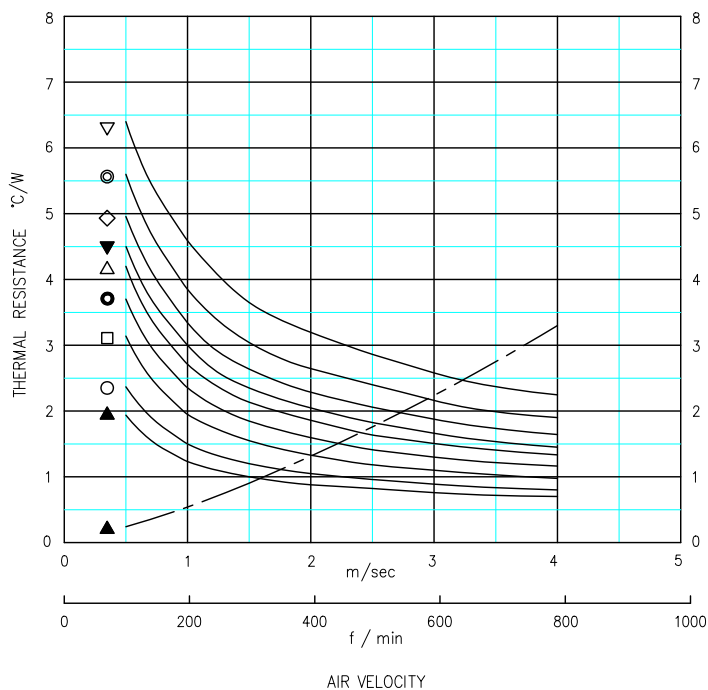
DIM



MATERIAL : A6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

MODEL	HEATSINK HEIGHT [h]	WEIGHT (grams)
UB4060-6B	6	23.0
UB4060-7B	7	24.3
UB4060-8B	8	25.6
UB4060-9B	9	26.9
UB4060-10B	10	28.2
UB4060-12B	12	30.7
UB4060-15B	15	34.6
UB4060-20B	20	41.0
UB4060-25B	25	47.4

DATA



- ▽ UB4060-6B
⊙ UB4060-7B
◇ UB4060-8B
▼ UB4060-9B
△ UB4060-10B
● UB4060-12B
□ UB4060-15B
○ UB4060-20B
▲ UB4060-25B
- DUCTED CONDITION
DUMMY HEATER SIZE: 12.7 SQ
THERMAL RESISTANCE ———
PRESSURE DROP - - -

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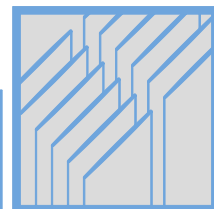
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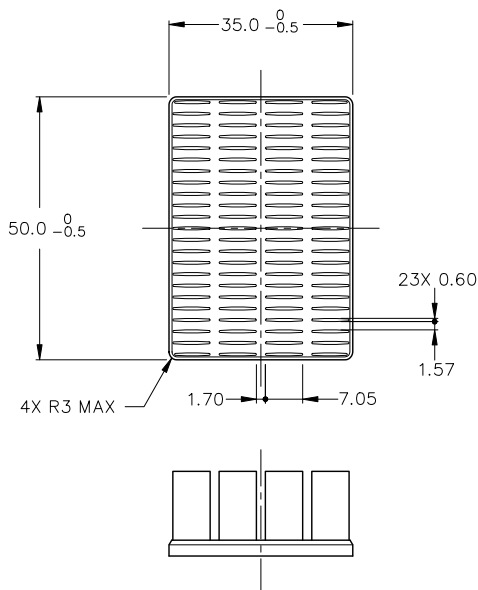
ALPHA

Low Pressure Drop and Low Thermal Resistance Heat Sink

UB5035



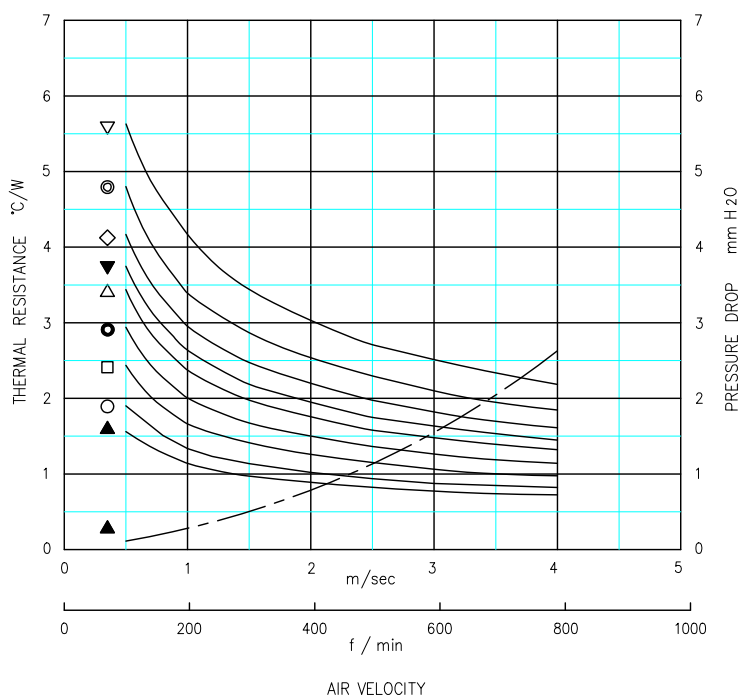
DIM



MATERIAL : A6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

MODEL	HEATSINK HEIGHT [h]	WEIGHT (grams)
UB5035-6B	6	16.6
UB5035-7B	7	17.5
UB5035-8B	8	18.4
UB5035-9B	9	19.3
UB5035-10B	10	20.2
UB5035-12B	12	22.0
UB5035-15B	15	24.6
UB5035-20B	20	29.1
UB5035-25B	25	33.5

DATA



- ▽ UB5035-6B
- ⊙ UB5035-7B
- ◇ UB5035-8B
- ▼ UB5035-9B
- △ UB5035-10B
- UB5035-12B
- UB5035-15B
- UB5035-20B
- ▲ UB5035-25B

● DUCTED CONDITION
DUMMY HEATER SIZE: 12.7 SQ
THERMAL RESISTANCE ———
PRESSURE DROP - - -

■ BASED ON ALPHA'S STANDARD TEST PROCEDURE.
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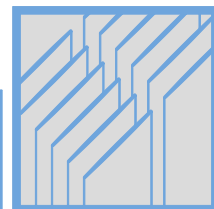
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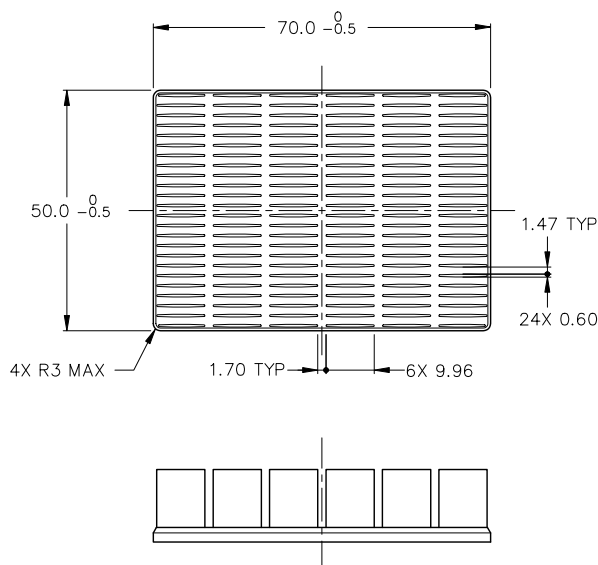
ALPHA

Low Pressure Drop and Low Thermal Resistance Heat Sink

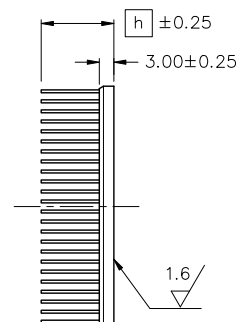
UB5070



DIM

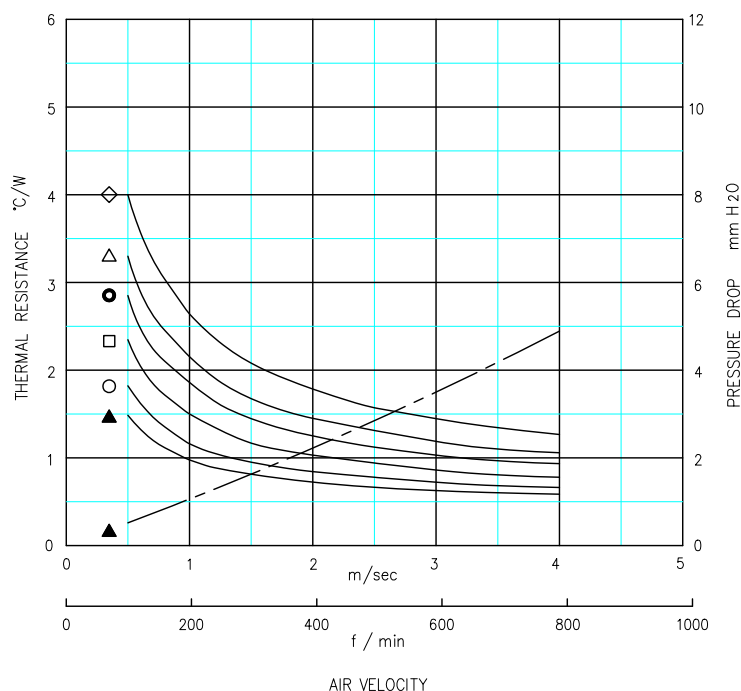


MATERIAL : A6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm



MODEL	HEATSINK HEIGHT [h]	WEIGHT (grams)
UB5070-8B	8	38.0
UB5070-10B	10	41.9
UB5070-12B	12	45.9
UB5070-15B	15	51.9
UB5070-20B	20	61.8
UB5070-25B	25	71.7

DATA



- ◇ UB5070-8B
- △ UB5070-10B
- UB5070-12B
- UB5070-15B
- UB5070-20B
- ▲ UB5070-25B

● DUCTED CONDITION
DUMMY HEATER SIZE: 12.7 SQ
THERMAL RESISTANCE ———
PRESSURE DROP - - - - -

■ BASED ON ALPHA'S STANDARD TEST PROCEDURE.
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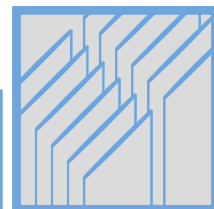
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PHONE +81(55)966 0789
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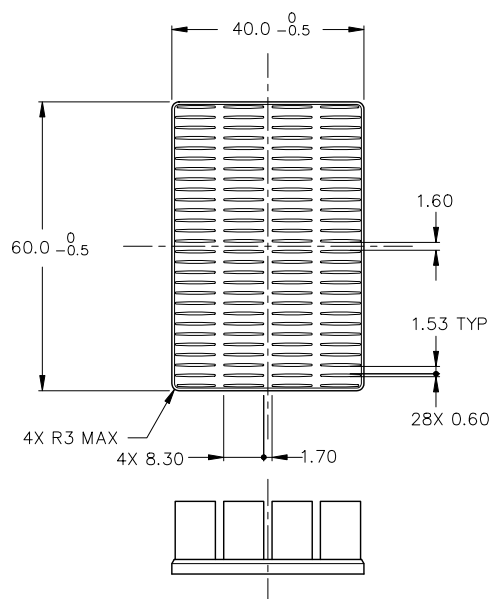
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ALPHA

Low Pressure Drop and
Low Thermal Resistance Heat Sink

UB6040

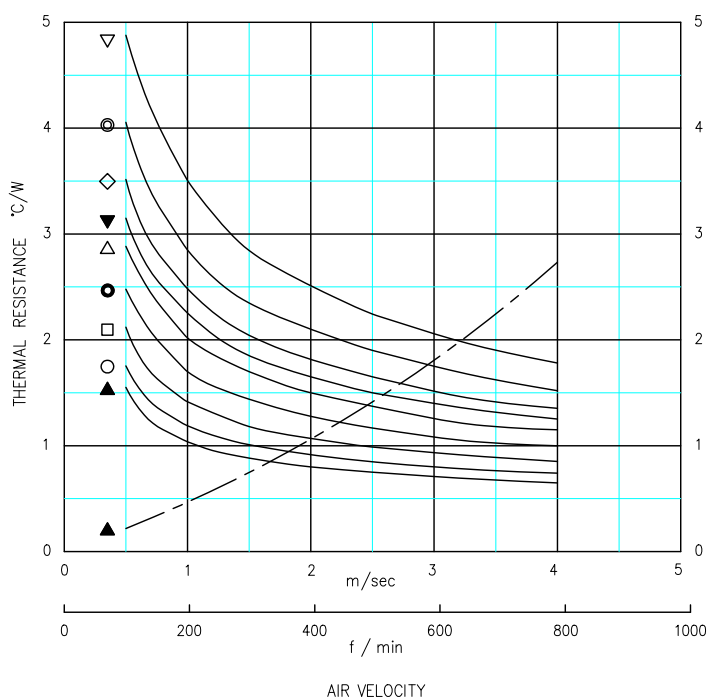
DIM



MATERIAL : A6063
 FINISH : BLACK ANODIZE
 DIMENSIONS : mm

MODEL	HEATSINK HEIGHT h	WEIGHT (grams)
UB6040-6B	6	22.9
UB6040-7B	7	24.1
UB6040-8B	8	25.4
UB6040-9B	9	26.6
UB6040-10B	10	27.8
UB6040-12B	12	30.3
UB6040-15B	15	34.0
UB6040-20B	20	40.2
UB6040-25B	25	46.4

DATA



● DUCTED CONDITION
 DUMMY HEATER SIZE: 12.7 SQ
 THERMAL RESISTANCE ———
 PRESURE DROP - - - -

■ BASED ON ALPHA'S STANDARD TEST PROCEDURE.
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 FAX +81(55)966 9192
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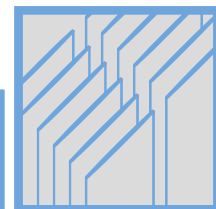
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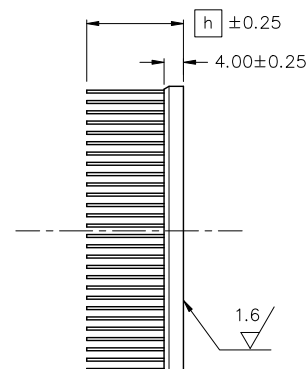
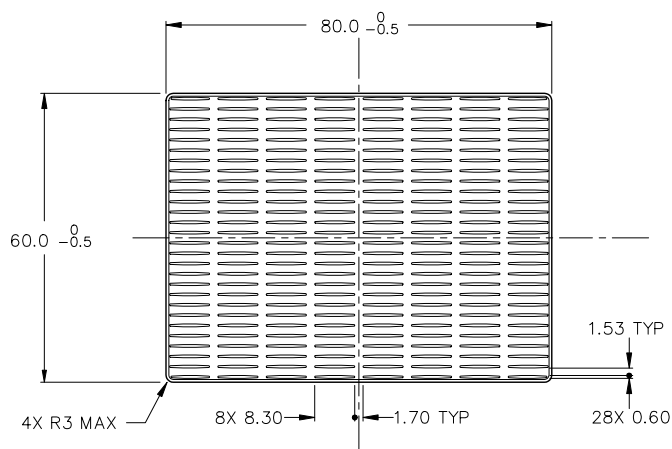
ALPHA

Low Pressure Drop and Low Thermal Resistance Heat Sink

UB6080



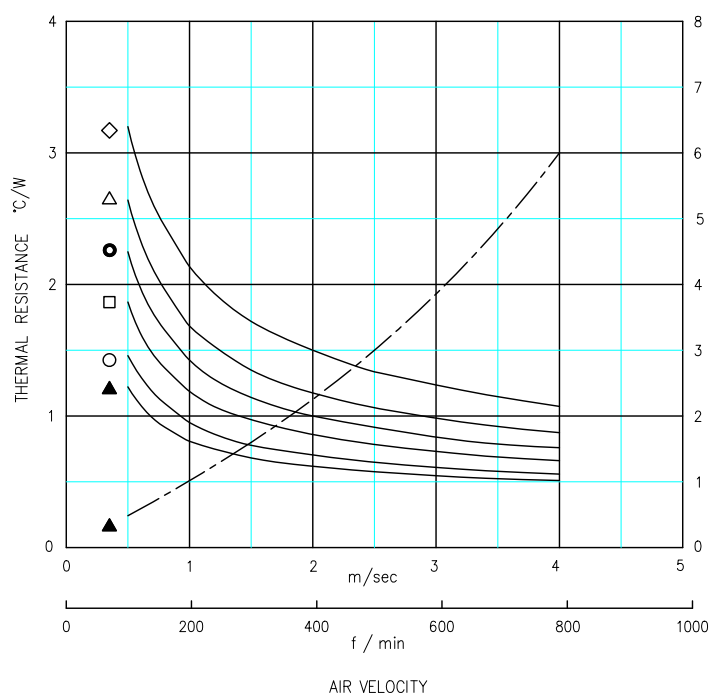
DIM



MATERIAL : A6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

MODEL	HEATSINK HEIGHT [h]	WEIGHT (grams)
UB6080-8B	8	61.6
UB6080-10B	10	66.7
UB6080-12B	12	71.9
UB6080-15B	15	79.5
UB6080-20B	20	92.3
UB6080-25B	25	105.1

DATA



- ◇ UB6080-8B
- △ UB6080-10B
- UB6080-12B
- UB6080-15B
- UB6080-20B
- ▲ UB6080-25B

● DUCTED CONDITION
DUMMY HEATER SIZE: 12.7 SQ
THERMAL RESISTANCE ———
PRESSURE DROP - - - -

■ BASED ON ALPHA'S STANDARD TEST PROCEDURE.
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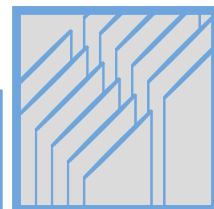
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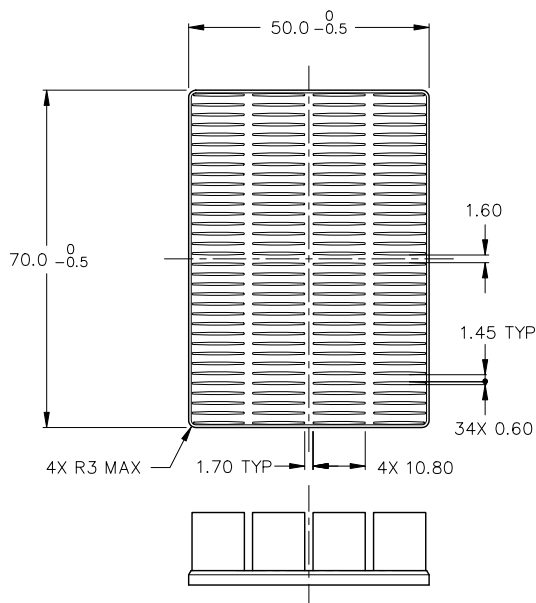
ALPHA

Low Pressure Drop and Low Thermal Resistance Heat Sink

UB7050



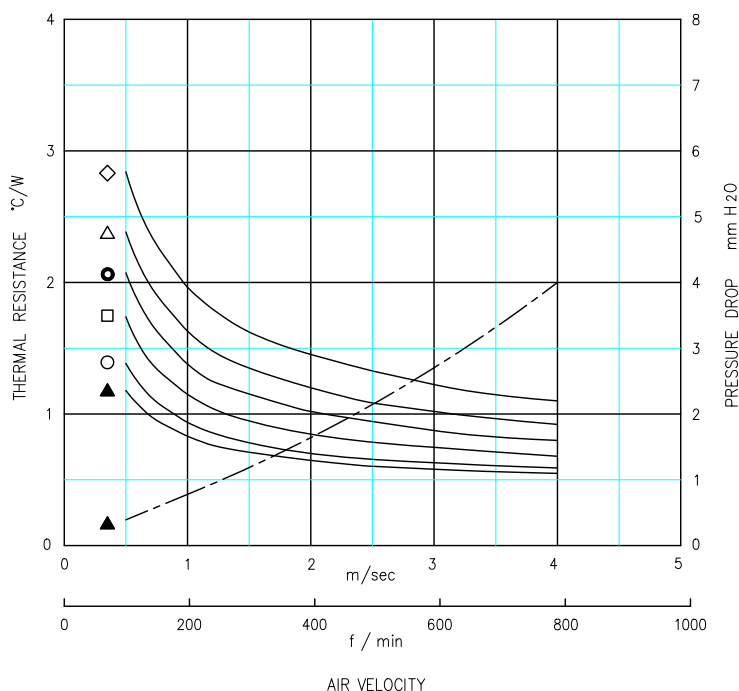
DIM



MATERIAL : A6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

MODEL	HEATSINK HEIGHT [h]	WEIGHT (grams)
UB7050-8B	8	38.2
UB7050-10B	10	42.3
UB7050-12B	12	46.3
UB7050-15B	15	52.4
UB7050-20B	20	62.6
UB7050-25B	25	72.7

DATA



- ◇ UB7050-8B
- △ UB7050-10B
- UB7050-12B
- UB7050-15B
- UB7050-20B
- ▲ UB7050-25B

● DUCTED CONDITION
DUMMY HEATER SIZE: 12.7 SQ
THERMAL RESISTANCE ———
PRESSURE DROP - - - -

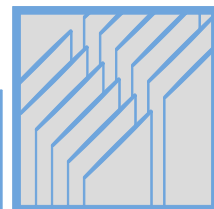
■ BASED ON ALPHA'S STANDARD TEST PROCEDURE.
REFER TO TECHNICAL INFORMATION.

Alpha Company Ltd.

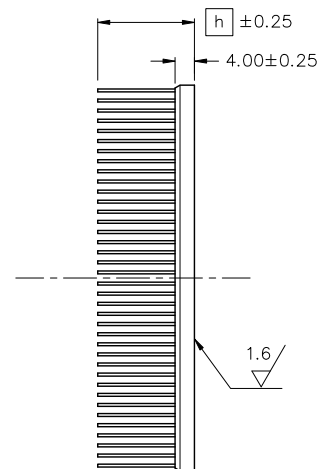
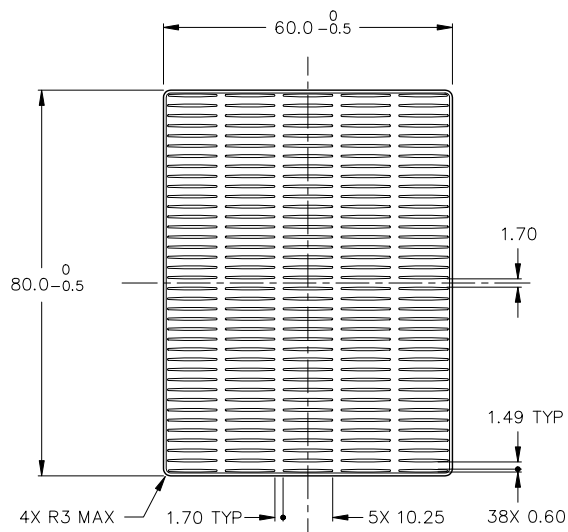
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ALPHALow Pressure Drop and
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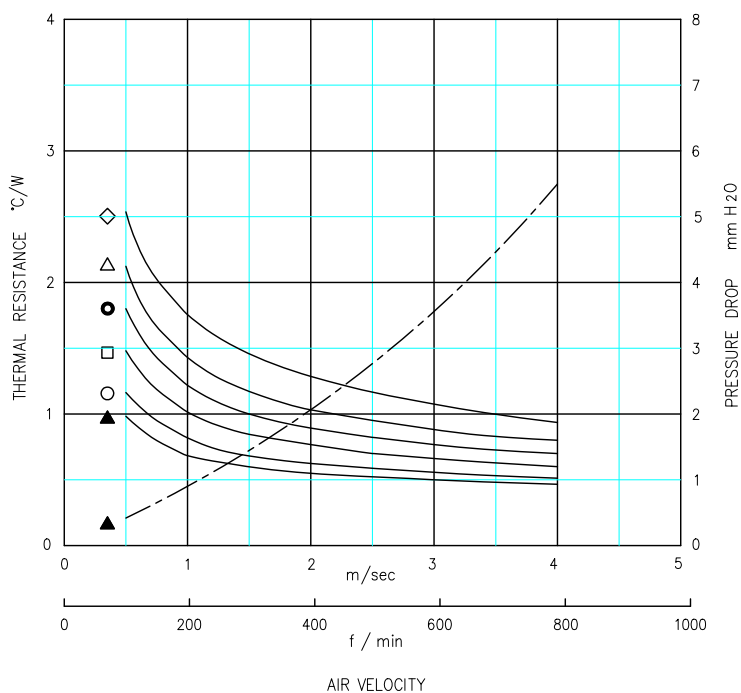
DIM



MATERIAL : A6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

MODEL	HEATSINK HEIGHT [h]	WEIGHT (grams)
UB8060-8B	8	62.2
UB8060-10B	10	67.5
UB8060-12B	12	72.9
UB8060-15B	15	81.0
UB8060-20B	20	94.4
UB8060-25B	25	107.9

DATA



- ◇ UB8060-8B
- △ UB8060-10B
- UB8060-12B
- UB8060-15B
- UB8060-20B
- ▲ UB8060-25B

● DUCTED CONDITION
DUMMY HEATER SIZE: 12.7 SQ
THERMAL RESISTANCE ———
PRESSURE DROP - - - - -

■ BASED ON ALPHA'S STANDARD TEST PROCEDURE.
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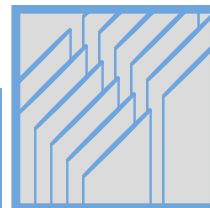
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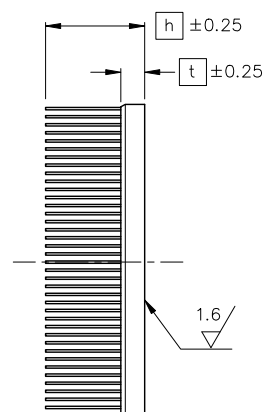
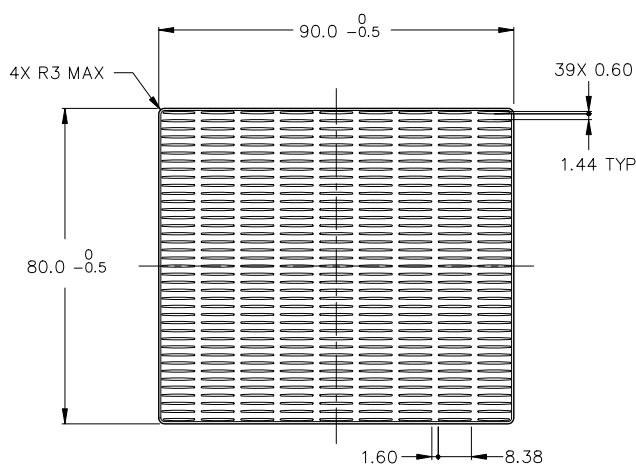
ALPHA

Low Pressure Drop and Low Thermal Resistance Heat Sink

UB8090



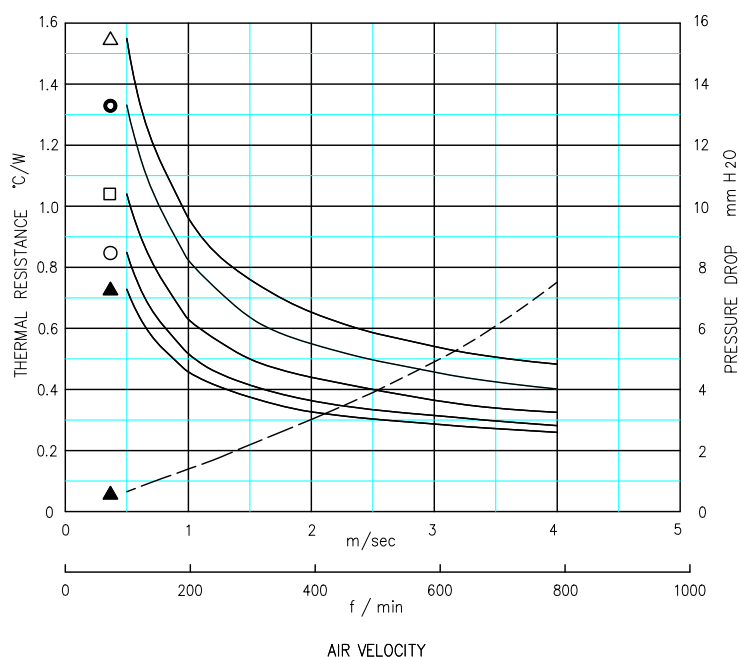
DIM



MATERIAL : A6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

MODEL	HEIGHT [h]	THICKNESS [t]	WEIGHT (grams)
UB8090-12B	12	4.00	109.6
UB8090-15B	15	6.00	152.3
UB8090-20B	20		172.5
UB8090-25B	25		192.8
UB8090-30B	30		213.0
UB8090-[h]B	[h] ≤ 12	4.00	-
	12 < [h] ≤ 30	6.00	-

DATA



- △ UB8090-12B
- UB8090-15B
- UB8090-20B
- UB8090-25B
- ▲ UB8090-30B

● DUCTED CONDITION
DUMMY HEATER SIZE: 25.4 SQ
THERMAL RESISTANCE ———
PRESSURE DROP - - - -

■ BASED ON ALPHA'S STANDARD TEST PROCEDURE.
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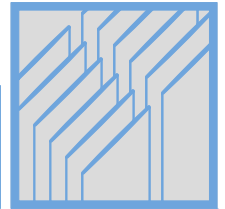
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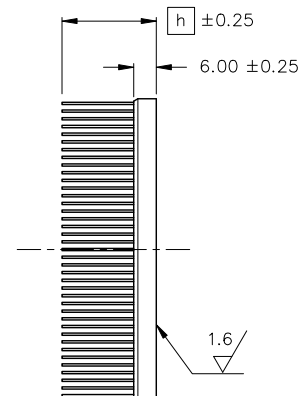
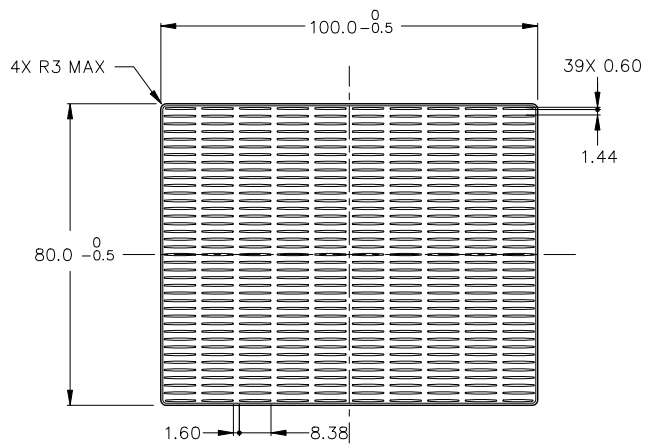
ALPHA

Low Pressure Drop and
Low Thermal Resistance Heat Sink

UB80100



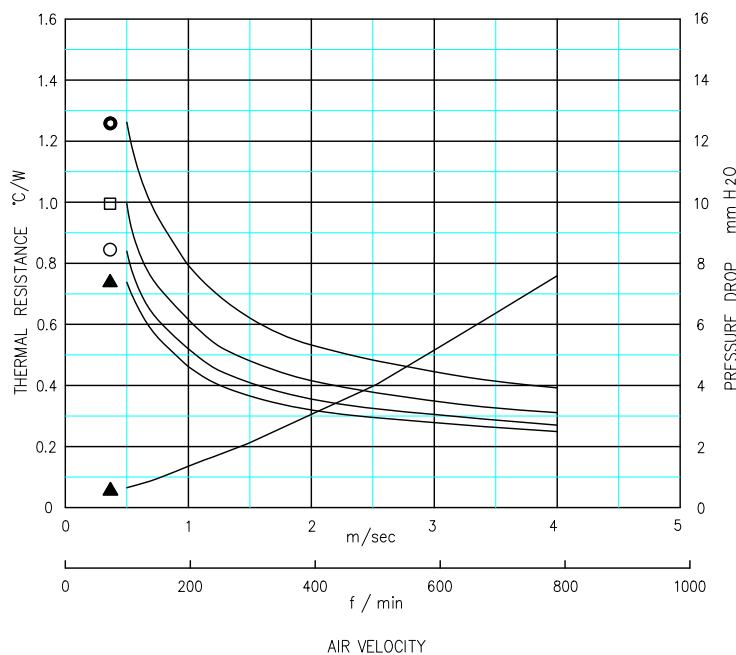
DIM



MATERIAL : A6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

MODEL	HEIGHT [h]	WEIGHT (grams)
UB80100-15B	15	169.2
UB80100-20B	20	191.7
UB80100-25B	25	214.2
UB80100-30B	30	236.7

DATA



- UB80100-15B
- UB80100-20B
- UB80100-25B
- ▲ UB80100-30B

● DUCTED CONDITION
DUMMY HEATER SIZE: 25.4 SQ
THERMAL RESISTANCE ———
PRESURE DROP - - -

■ BASED ON ALPHA'S STANDARD TEST PROCEDURE.
REFER TO TECHNICAL INFORMATION.

Alpha Company Ltd.

256-1 UEDA, NUMAZU-CITY SHIZUOKA-PREF., JAPAN
PHONE +81(55)966 0789
FAX +81(55)966 9192
E mail : alpha@micforg.co.jp
URL : <https://www.micforg.co.jp>

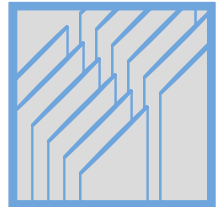
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473 Sapena Ct. #12 Santa Clara, CA 95054 USA
PHONE +1(408)567-8082
FAX +1(408)567-8053
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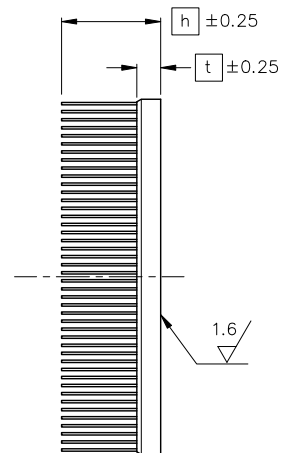
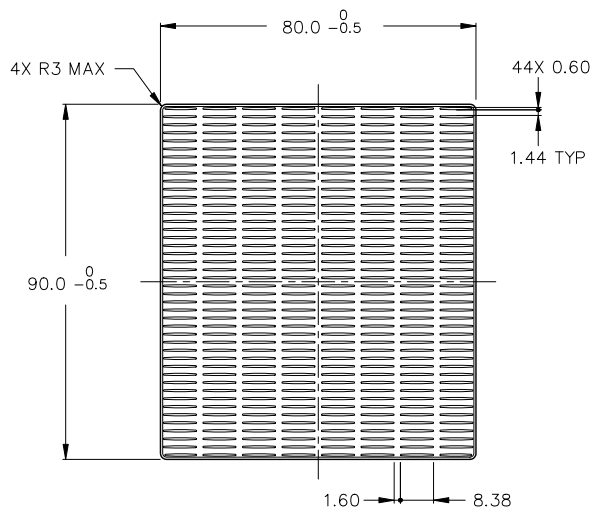
ALPHA

Low Pressure Drop and
Low Thermal Resistance Heat Sink

UB9080



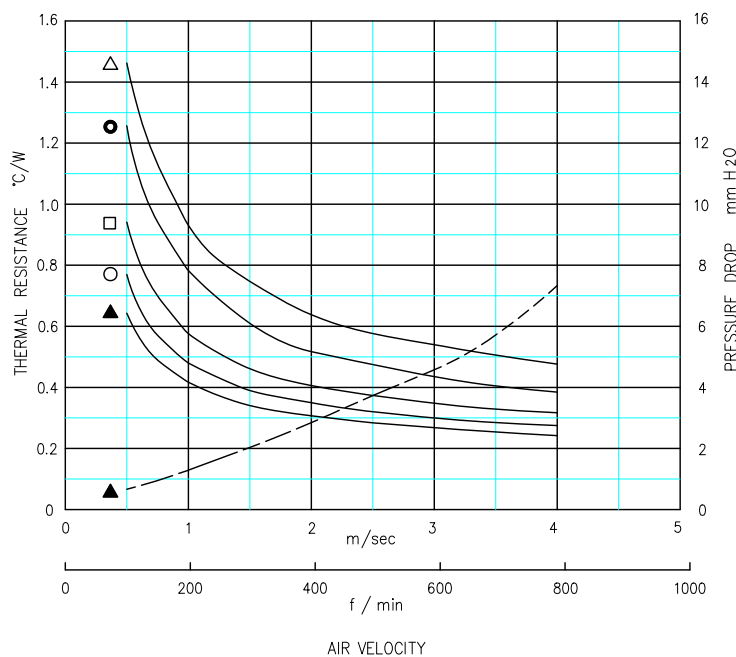
DIM



MATERIAL : A6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

MODEL	HEIGHT [h]	THICKNESS [t]	WEIGHT (grams)
UB9080-12B	12	4.00	109.7
UB9080-15B	15	6.00	152.4
UB9080-20B	20		172.7
UB9080-25B	25		193.0
UB9080-30B	30		213.3
UB9080-[h]B	[h] ≤ 12	4.00	-
	12 < [h] ≤ 30	6.00	-

DATA



- △ UB9080-12B
- UB9080-15B
- UB9080-20B
- UB9080-25B
- ▲ UB9080-30B

● DUCTED CONDITION
DUMMY HEATER SIZE: 25.4 SQ
THERMAL RESISTANCE ———
PRESURE DROP - - -

■ BASED ON ALPHA'S STANDARD TEST PROCEDURE.
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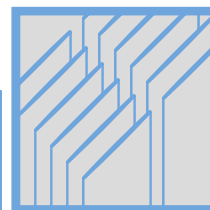
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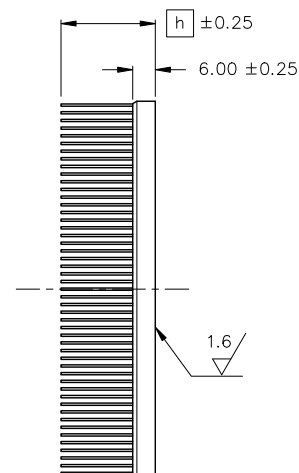
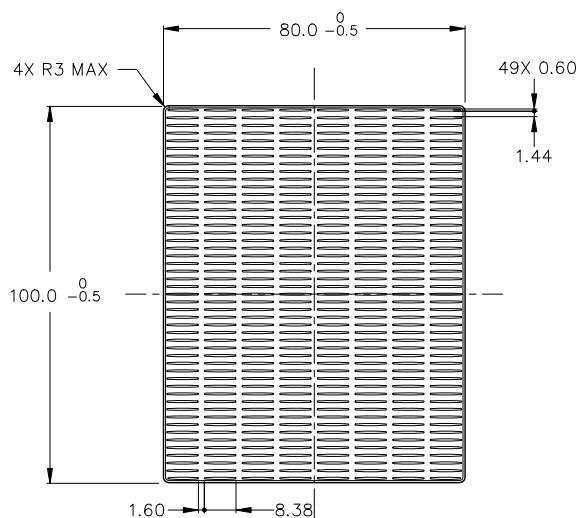
ALPHA

Low Pressure Drop and Low Thermal Resistance Heat Sink

UB10080



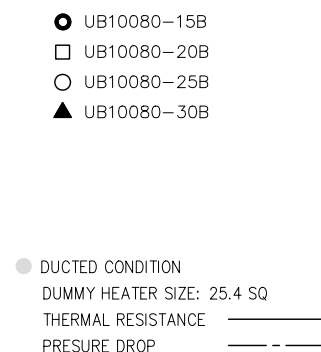
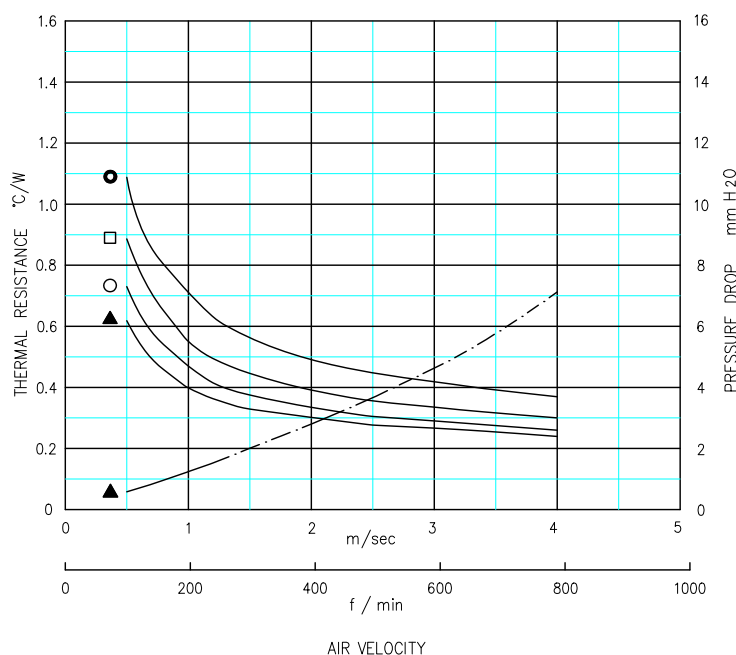
DIM



MATERIAL : A6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

MODEL	HEIGHT [h]	WEIGHT (grams)
UB10080-15B	15	169.4
UB10080-20B	20	192.1
UB10080-25B	25	214.7
UB10080-30B	30	237.3

DATA



■ BASED ON ALPHA'S STANDARD TEST PROCEDURE.
REFER TO TECHNICAL INFORMATION.

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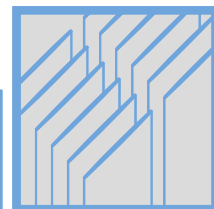
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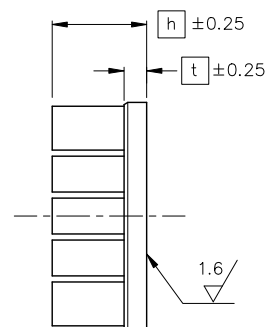
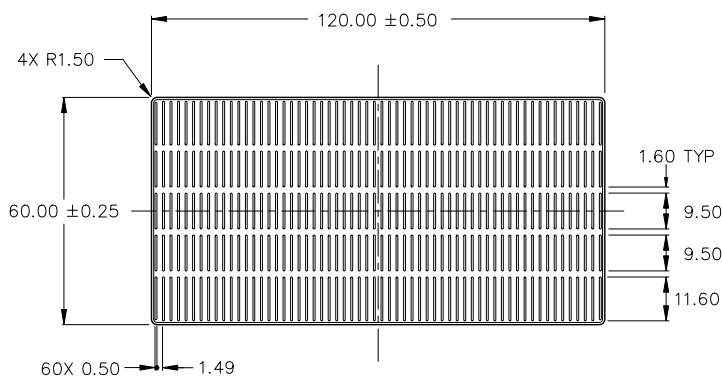
ALPHA

Low Pressure Drop and
Low Thermal Resistance Heat Sink

UB12060



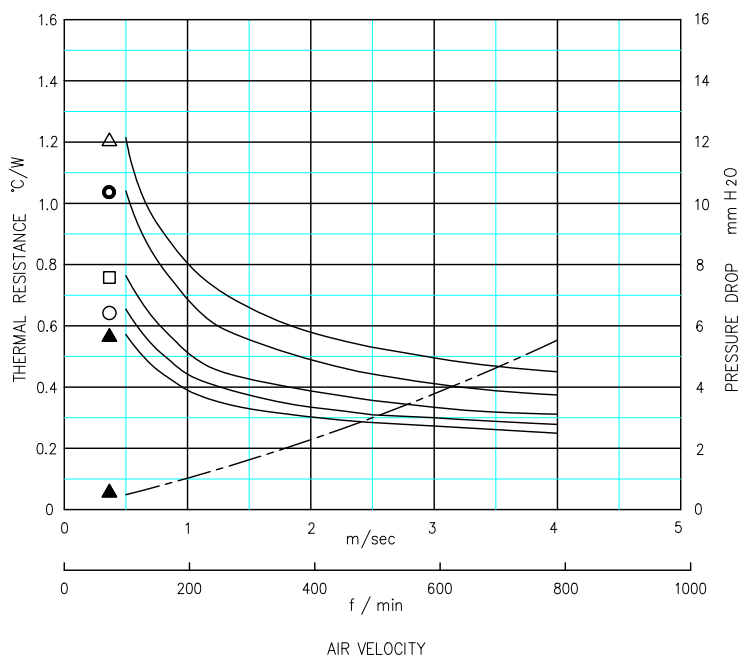
DIM



MATERIAL : A6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

MODEL	HEIGHT [h]	THICKNESS [t]	WEIGHT (grams)
UB12060-12B	12	5.00	125.5
UB12060-15B	15	6.00	153.1
UB12060-20B	20		173.8
UB12060-25B	25		194.4
UB12060-30B	30		215.1
UB12060-[h]B	[h] ≤ 12	5.00	-
	12 < [h] ≤ 30	6.00	-

DATA



- △ UB12060-12B
- UB12060-15B
- UB12060-20B
- UB12060-25B
- ▲ UB12060-30B

● DUCTED CONDITION
DUMMY HEATER SIZE: 25.4 SQ
THERMAL RESISTANCE ———
PRESSURE DROP - - - - -

■ BASED ON ALPHA'S STANDARD TEST PROCEDURE.
REFER TO TECHNICAL INFORMATION.

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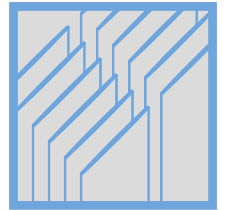
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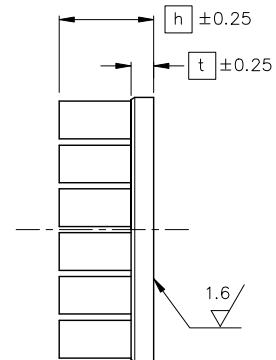
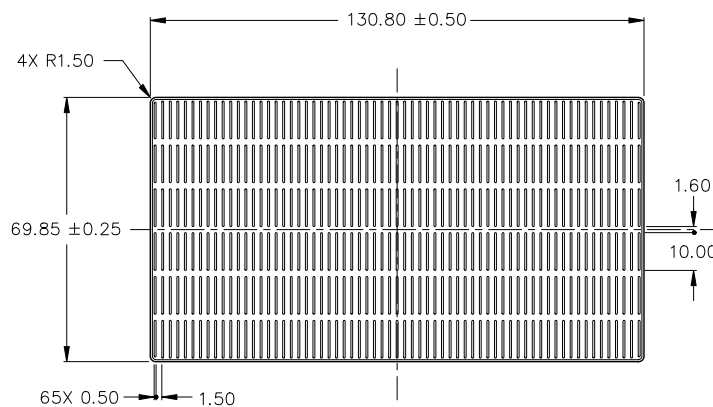
ALPHA

Low Pressure Drop and
Low Thermal Resistance Heat Sink

UB13070



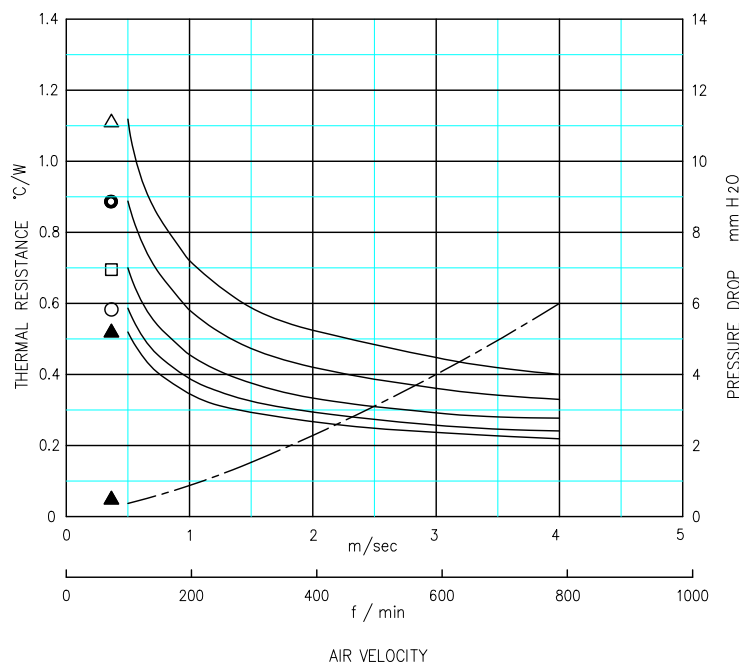
DIM



MATERIAL : A6063
FINISH : BLACK ANODIZE
DIMENSIONS : mm

MODEL	HEIGHT [h]	THICKNESS [t]	WEIGHT (grams)
UB13070-12B	12	5.00	158.1
UB13070-15B	15	6.00	192.8
UB13070-20B	20		218.2
UB13070-25B	25		243.6
UB13070-30B	30		269.0
UB13070-[h]B	[h] ≤ 12	5.00	-
	12 < [h] ≤ 30	6.00	-

DATA



- △ UB13070-12B
- UB13070-15B
- UB13070-20B
- UB13070-25B
- ▲ UB13070-30B

● DUCTED CONDITION
DUMMY HEATER SIZE: 25.4 SQ
THERMAL RESISTANCE ———
PRESSURE DROP - - - - -

■ BASED ON ALPHA'S STANDARD TEST PROCEDURE.
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