

CATFORD ENGINEERING PRODUCTS

Jamestown
SA 5491

All Prices Excluding GST

Phone: 0418 641 566

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ASA Coolers & Accessories

*Lowline *TT Rail *ASA *CC *Connector Kits

*Brazen Plate Heat Exchangers

*Compensators *Vibration Mounts *Pump Units





Lot 25, Mannanarie Road, Jamestown, South Australia 5491



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Due to fluctuations in the Australian dollar and the economic climate, please be advised that all prices are subject to change.
Please contact us to confirm pricing.

All prices stated within are exclusive of GST
(All prices are correct as of January 1st 2026, but Catford Engineering reserve the right to change these prices without notice)

ASA Coolers and Accessories

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COOLERS & ACCESSORIES



Low Line Series
Coolers

419



TT Rail Series
Coolers

422



ASA Series
Coolers

426



Connector Kits

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Rail Filter Series

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Foot Mounting Kits

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Protection Housings

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Rubber Vibration
Absorbers

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Temperature
Controllers

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Temperature Bypass
Valves

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Temperature Sensors
& Switches

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Fan Kits

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H-Cube Series
Modular Coolers

436



Integrated Oil/Air
Coolers

439



Radiator Cores

439



Brazed Plate Heat
Exchangers

440



Offline Cooling

441



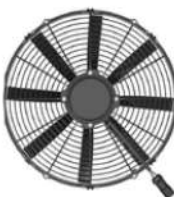
Gerotor Pump Units

443



MBD Series
12v Fans

444



MBD Series
24v Fans

444

CATFORD
ENGINEERING
HYDRAULIC PRODUCTS

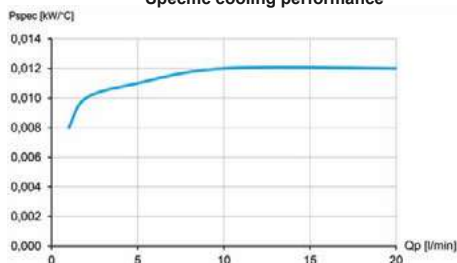


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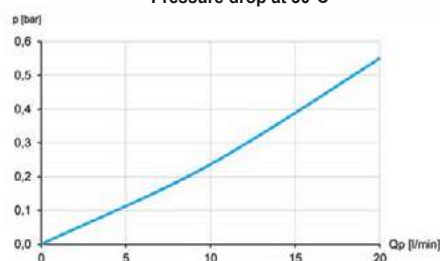
ASA0013 Low Line Series

Part #	List Price \$	Voltage	Current	Ports	Max Pressure	Dimensions (mm)		
						H	W	D
ASA0013GD01	975.00	12v DC	0.30a	1/2" BSPP	26 Bar	119	120	92
ASA0013GD02	975.00	24v DC	0.15a	1/2" BSPP	26 Bar	119	120	92
ASA0013GE01	690.00	240v AC	0.12a	1/2" BSPP	26 Bar	119	120	92

Specific cooling performance



Pressure drop at 30°C



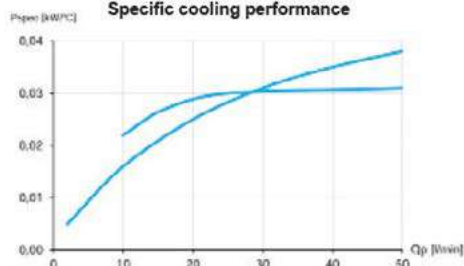
More options
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TECH
DATA

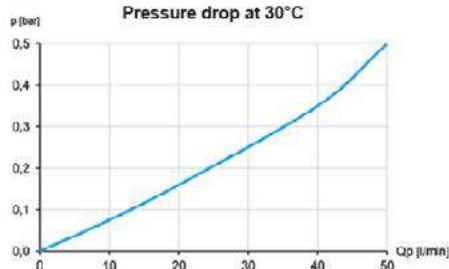
ASA0023 Low Line Series

Part #	List Price \$	Voltage	Current	Ports	Max Pressure	Dimensions (mm)		
						H	W	D
ASA0023GD01	855.00	12v DC	5.4a	3/4" BSPP	26 Bar	180	229	98
ASA0023GD02	855.00	24v DC	2.7a	3/4" BSPP	26 Bar	180	229	98
ASA0023GE02	1083.00	240v AC	0.25a	3/4" BSPP	26 Bar	180	229	98

Specific cooling performance



Pressure drop at 30°C



ASA0023GD



ASA0023GE

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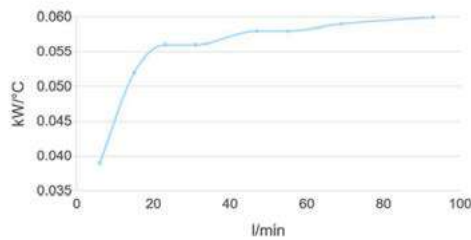
ASA0033 Low Line Series

Part #	List Price \$	Voltage	Current	Ports	Max Pressure	Dimensions (mm)		
						H	W	D
ASA0033GD01	884.00	12v DC	5.4a	3/4" BSPP	26 Bar	239	212	115
ASA0033GD02	884.00	24v DC	2.7a	3/4" BSPP	26 Bar	239	212	115
ASA0033GI02	1420.00	230/400v AC	0.2a	3/4" BSPP	26 Bar	239	214	143

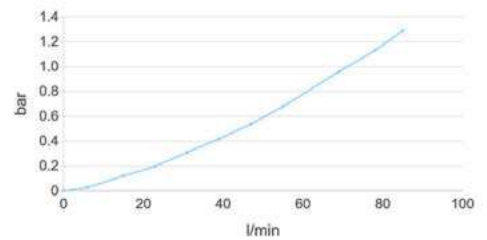


12v/24v DC

Specific cooling performance

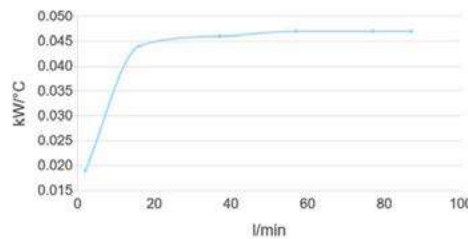


Pressure drop at 30°C

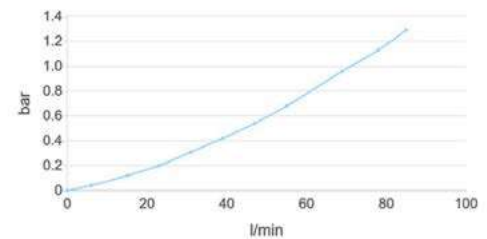


230v/400v AC

Specific cooling performance



Pressure drop at 30°C



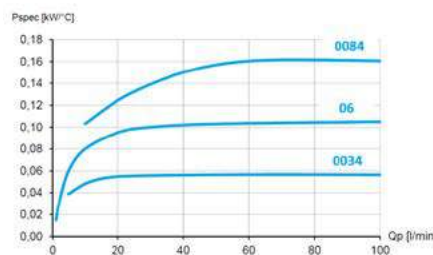
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Low Line Series AC Compact

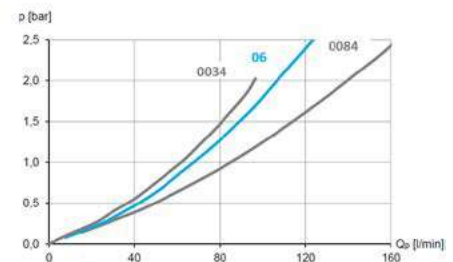
Part #	List Price \$	Voltage	Current	Bypass	Ports	Max Pressure	Dimensions (mm)		
							H	W	D
ASA0034GC2E	1384.00	240v AC	0.25a	n/a	3/4" BSPP	26 Bar	255	250	246
ASA0034GC2EBP	1447.00	240v AC	0.25a	Internal	3/4" BSPP	26 Bar	255	250	246
ASATT06GC2E	1857.00	240v AC	0.45a	n/a	3/4" BSPP	26 Bar	290	323	226
ASATT06GC2EBP	1889.00	240v AC	0.45a	Internal	3/4" BSPP	26 Bar	290	323	226
ASA0084GC2E	2416.00	240v AC	0.55a	n/a	1" BSPP	26 Bar	380	386	226
ASA0084GC2EBP	2499.00	240v AC	0.55a	Internal	1" BSPP	26 Bar	380	386	226



Specific cooling performance



Pressure drop at 30°C



More options
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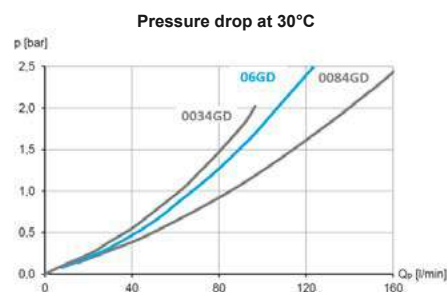
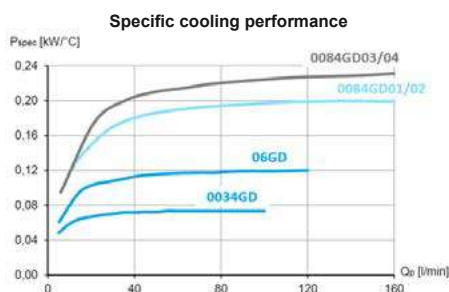
Low Line Series DC

Part #	List Price \$	Voltage	Current	Bypass	Ports	Max Pressure	Dimensions (mm)		
							H	W	D
ASA0034GD01	1135.00	12v DC	8.5a	n/a	3/4" BSPP	26 Bar	255	250	134
ASA0034GD01BP	1199.00	12v DC	8.5a	Internal	3/4" BSPP	26 Bar	255	250	134
ASA0034GD02	1135.00	24v DC	4.2a	n/a	3/4" BSPP	26 Bar	255	250	134
ASA0034GD02BP	1199.00	24v DC	4.2a	Internal	3/4" BSPP	26 Bar	255	250	134
ASATT06GD03	1091.00	12v DC	7.4a	n/a	3/4" BSPP	26 Bar	290	320	145
ASATT06GD03BP	1229.00	12v DC	7.4a	Internal	3/4" BSPP	26 Bar	290	320	145
ASATT06GD04	1091.00	24v DC	3.7a	n/a	3/4" BSPP	26 Bar	290	320	145
ASATT06GD04BP	1229.00	24v DC	3.7a	Internal	3/4" BSPP	26 Bar	290	320	145
ASA0084GD01	1499.00	12v DC	12.2a	n/a	1" BSPP	26 Bar	380	386	136
ASA0084GD01BP	1548.00	12v DC	12.2a	Internal	1" BSPP	26 Bar	380	386	136
ASA0084GD02	1499.00	24v DC	5.6a	n/a	1" BSPP	26 Bar	380	386	136
ASA0084GD02BP	1548.00	24v DC	5.6a	Internal	1" BSPP	26 Bar	380	386	136
ASA0084GD03	1548.00	12v DC	21.2a	n/a	1" BSPP	26 Bar	380	386	157
ASA0084GD03BP	1597.00	12v DC	21.2a	Internal	1" BSPP	26 Bar	380	386	157
ASA0084GD04	1548.00	24v DC	10.6a	n/a	1" BSPP	26 Bar	380	386	157
ASA0084GD04BP	1597.00	24v DC	10.6a	Internal	1" BSPP	26 Bar	380	386	157
ASA0144GD01	1718.00	12v DC	21.2a	n/a	1" BSPP	26 Bar	460	466	176
ASA0144GD01BP	1828.00	12v DC	21.2a	Internal	1" BSPP	26 Bar	460	466	176
ASA0144GD02	1718.00	24v DC	11.4a	n/a	1" BSPP	26 Bar	460	466	176
ASA0144GD02BP	1828.00	24v DC	11.4a	Internal	1" BSPP	26 Bar	460	466	176

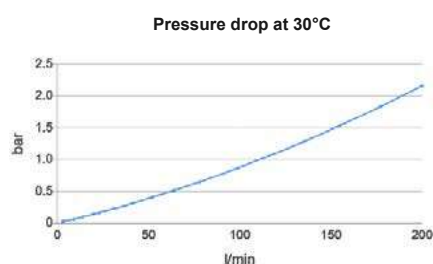
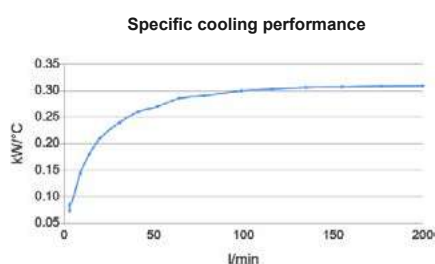


More options
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0034/06/0084



0144



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TT Rail Series - DC

Part #	List Price \$	Voltage	Current	Bypass	Max Pressure	Dimensions (mm)		
						H	W	D
ASATT07RD01	1293.00	12v	10.4a	n/a	26 Bar	300	320	160
ASATT07RD02	1293.00	24v	5.2a	n/a	26 Bar	300	320	160
ASATT07RD03	1395.00	12v	16.2a	n/a	26 Bar	300	320	176
ASATT07RD04	1395.00	24v	8.1a	n/a	26 Bar	300	320	176
ASATT11RD01	1594.00	12v	20.8a	n/a	26 Bar	340	380	175
ASATT11RD02	1594.00	24v	10.4a	n/a	26 Bar	340	380	175
ASATT13RD01	1969.00	12v	20.8a	n/a	26 Bar	420	405	205
ASATT13RD02	1969.00	24v	10.4a	n/a	26 Bar	420	405	205
ASATT16RD01	2344.00	12v	18.6a	n/a	26 Bar	465	460	190
ASATT16RD02	2344.00	24v	9.3a	n/a	26 Bar	465	460	190
ASATT21RD01	2729.00	12v	18.6a	n/a	26 Bar	605	460	243
ASATT21RD02	2729.00	24v	9.3a	n/a	26 Bar	605	460	243
ASATT25RD01	3230.00	12v	18.6a	n/a	26 Bar	605	555	257
ASATT25RD02	3230.00	24v	9.3a	n/a	26 Bar	605	555	257
ASATT36RD01	3917.00	12v	2 x 22.6a	n/a	26 Bar	605	730	250
ASATT36RD02	3917.00	24v	2 x 11.4a	n/a	26 Bar	605	730	250
ASATT07RD01BP	1687.00	12v	10.4a	2 bar *	26 Bar	300	320	160
ASATT07RD02BP	1687.00	24v	5.2a	2 bar *	26 Bar	300	320	160
ASATT07RD03BP	1792.00	12v	16.2a	2 bar *	26 Bar	300	320	176
ASATT07RD04BP	1792.00	24v	8.1a	2 bar *	26 Bar	300	320	176
ASATT11RD01BP	1886.00	12v	20.8a	2 bar *	26 Bar	340	380	175
ASATT11RD02BP	1886.00	24v	10.4a	2 bar *	26 Bar	340	380	175
ASATT13RD01BP	2208.00	12v	20.8a	2 bar *	26 Bar	420	405	205
ASATT13RD02BP	2208.00	24v	10.4a	2 bar *	26 Bar	420	405	205
ASATT16RD01BP	2521.00	12v	18.6a	2 bar *	26 Bar	465	460	190
ASATT16RD02BP	2521.00	24v	9.3a	2 bar *	26 Bar	465	460	190
ASATT21RD01BP	2938.00	12v	18.6a	2 bar *	26 Bar	605	460	243
ASATT21RD02BP	2938.00	24v	9.3a	2 bar *	26 Bar	605	460	243
ASATT25RD01BP	3428.00	12v	18.6a	2 bar *	26 Bar	605	555	257
ASATT25RD02BP	3428.00	24v	9.3a	2 bar *	26 Bar	605	555	257
ASATT36RD01BP	4803.00	12v	2 x 22.6a	2 bar *	26 Bar	605	730	250
ASATT36RD02BP	4803.00	24v	2 x 11.4a	2 bar *	26 Bar	605	730	250

* 1 or 5 bar bypass available on request



ASATT07

ASATT11



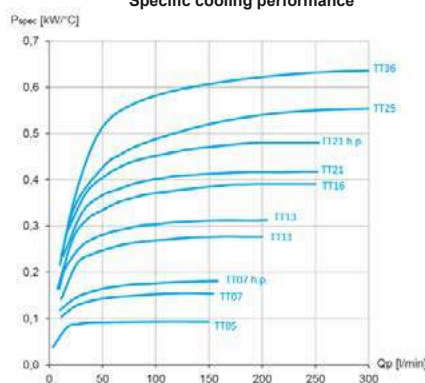
ASATT21

ASATT36

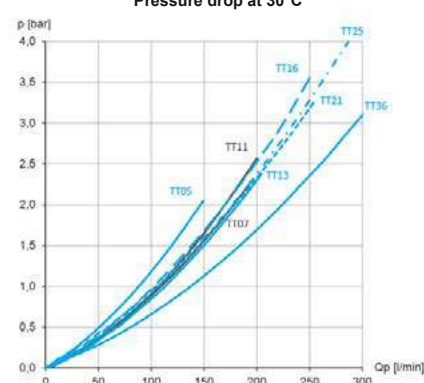


Must use with connector kits for ports - see page 429

Specific cooling performance



Pressure drop at 30°C



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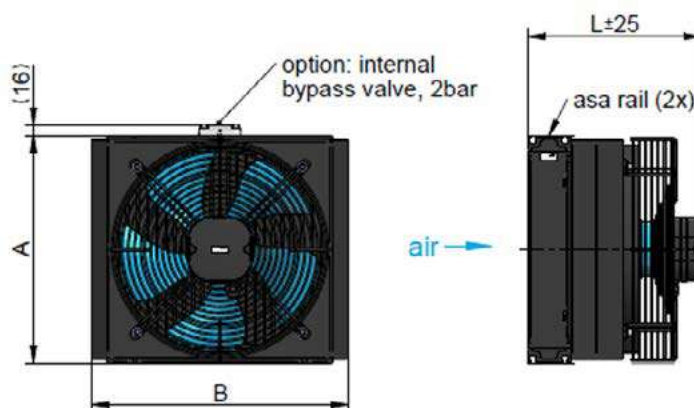
TT Rail Series Compact - 240v AC (Motor included)

Part #	List Price \$	Voltage	Current	Bypass	Max Pressure	Dimensions (mm)		
						A	B	L
ASATT07RC2E	1868.00	240v	0.45a	n/a	26 Bar	300	325	260
ASATT11RC4E	2051.00	240v	0.42a	n/a	26 Bar	340	385	260
ASATT11RC2E	2080.00	240v	0.55a	n/a	26 Bar	340	385	260
ASATT13RC4E	2712.00	240v	0.66a	n/a	26 Bar	420	410	260
ASATT16RC4E	3152.00	240v	0.85a	n/a	26 Bar	465	465	285
ASATT07RC2EBP	2249.00	240v	0.45a	2 bar*	26 Bar	300	325	260
ASATT11RC4EBP	2293.00	240v	0.42a	2 bar*	26 Bar	340	385	260
ASATT11RC2EBP	2293.00	240v	0.55a	2 bar*	26 Bar	340	385	260
ASATT13RC4EBP	2905.00	240v	0.66a	2 bar*	26 Bar	420	410	260
ASATT16RC4EBP	3258.00	240v	0.85a	2 bar*	26 Bar	465	465	285

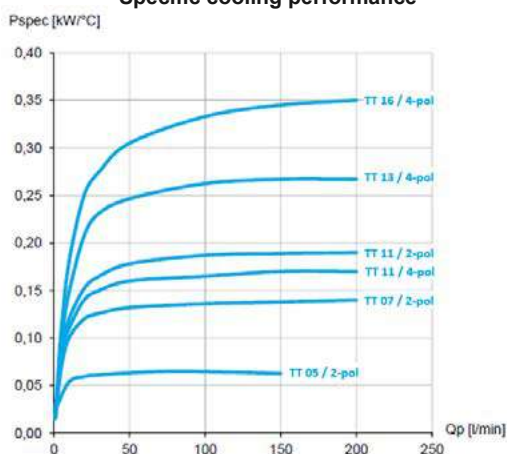
* 1 or 5 bar bypass available on request



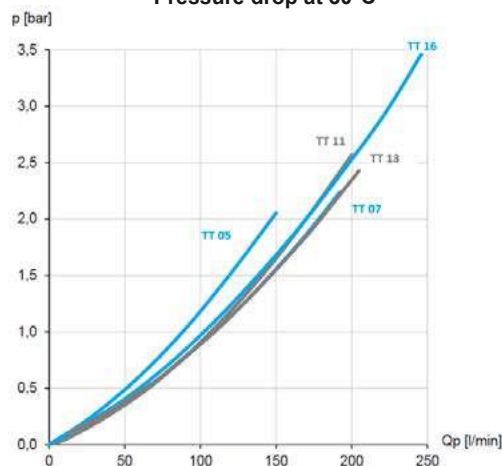
Must use with connector kits for ports - see page 429



Specific cooling performance



Pressure drop at 30°C



More options
on page 432

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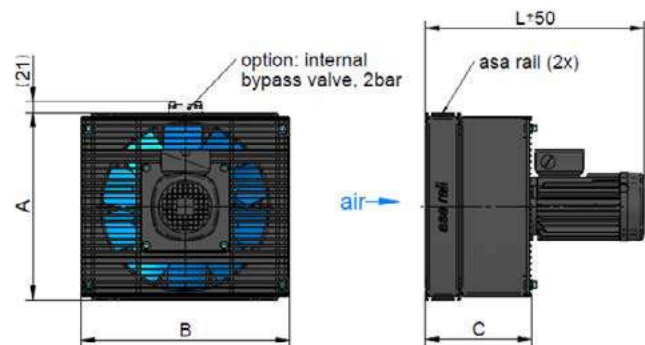
TT Rail Series - 240v/415v AC (Motor not included)

Part #	List Price \$	Motor Size	Bypass	Max Pressure	Dimensions (mm)			
					A	B	C	L
ASATT07RA00NM	1813.00	0.25kW 4P / 0.55kW 2P, D71 (B14)	n/a	26 Bar	300	320	193	396
ASATT11RA00NM	2250.00	0.25kW 4P / 0.55kW 2P, D71 (B14)	n/a	26 Bar	340	380	193	398
ASATT16RA40NM	3334.00	0.18kW 6P / 0.25kW 4P, D71 (B14)	n/a	26 Bar	465	462	219	414
ASATT16RA20NM	3407.00	0.55kW 2P, D71 (B14)	n/a	26 Bar	465	462	219	414
ASATT21RA00NM	4449.00	0.37kW 6P / 0.75kW 4P, D80 (B14)	n/a	26 Bar	605	558	222	444
ASATT25RA00NM	4545.00	0.37kW 6P / 0.75kW 4P, D80 (B14)	n/a	26 Bar	605	558	219	440
ASATT07RA00BPNM	2478.00	0.25kW 4P / 0.55kW 2P, D71 (B14)	2 bar*	26 Bar	300	320	193	396
ASATT11RA00BPNM	2647.00	0.25kW 4P / 0.55kW 2P, D71 (B14)	2 bar*	26 Bar	340	380	193	398
ASATT16RA40BPNM	3501.00	0.18kW 6P / 0.25kW 4P, D71 (B14)	2 bar*	26 Bar	465	462	219	414
ASATT16RA20BPNM	3584.00	0.55kW 2P, D71 (B14)	2 bar*	26 Bar	465	462	219	414
ASATT21RA00BPNM	4625.00	0.37kW 6P / 0.75kW 4P, D80 (B14)	2 bar*	26 Bar	605	558	222	444
ASATT25RA00BPNM	4724.00	0.37kW 6P / 0.75kW 4P, D80 (B14)	2 bar*	26 Bar	605	558	219	440

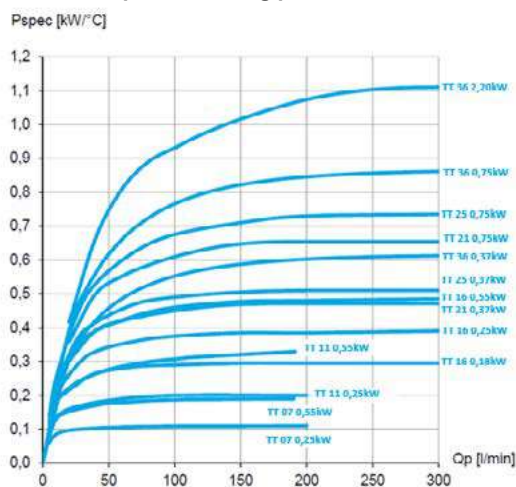
* 1 or 5 bar bypass available on request



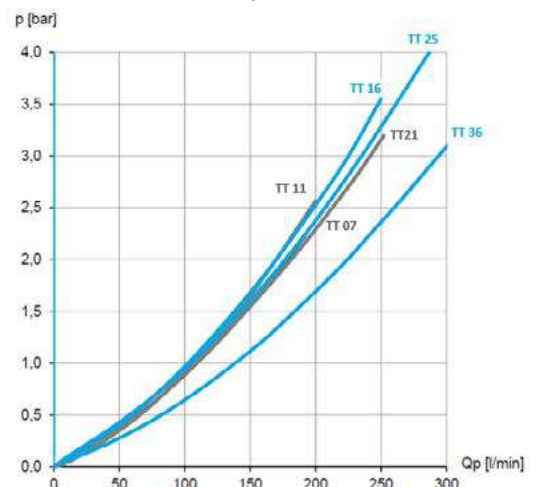
Must use with connector kits for ports - see page 429



Specific cooling performance



Pressure drop at 30°C

More options
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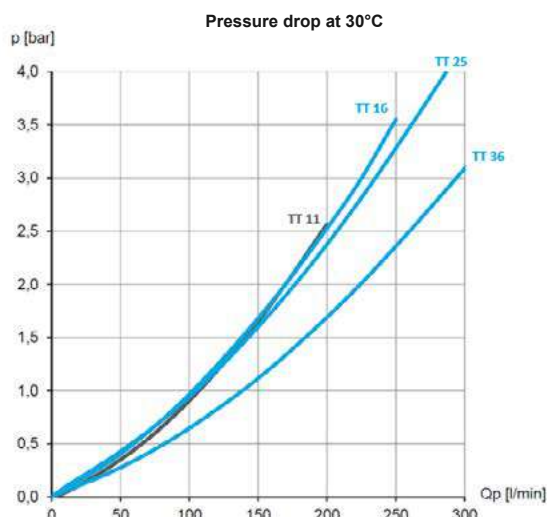
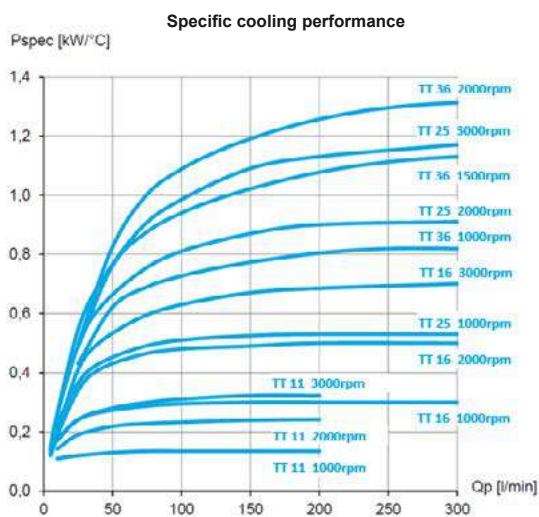
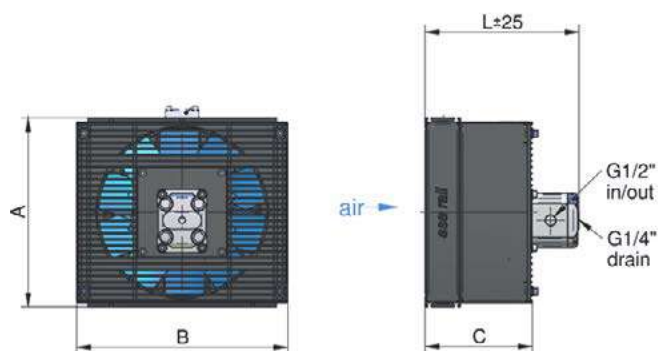
TT Rail Series - Hydraulic Drive

Part #	List Price \$	Motor Size	Bypass	Max Pressure	Dimensions (mm)			
					A	B	C	L
ASATT11RH11	3491.00	Group 2 DIN 11cc	n/a	26 bar	340	380	194	276
ASATT16RH11	4468.00	Group 2 DIN 11cc	n/a	26 bar	465	462	219	292
ASATT25RH11	5381.00	Group 2 DIN 11cc	n/a	26 bar	605	558	219	292
ASATT36RH11	6282.00	Group 2 DIN 11cc	n/a	26 bar	605	736	239	367
ASATT11RH11BP	3764.00	Group 2 DIN 11cc	2 bar*	26 bar	340	380	194	276
ASATT16RH11BP	4692.00	Group 2 DIN 11cc	2 bar*	26 bar	465	462	219	292
ASATT25RH11BP	5731.00	Group 2 DIN 11cc	2 bar*	26 bar	605	558	219	292
ASATT36RH11BP	6633.00	Group 2 DIN 11cc	2 bar*	26 bar	605	736	239	367

* 1 or 5 bar bypass available on request



Must use with connector kits for ports - see page 429



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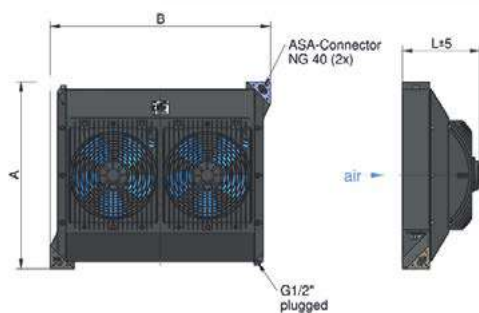
ASA Series - DC

Part #	List Price \$	Voltage	Current	Bypass	Max Pressure	Dimensions (mm)		
						A	B	L
ASA0177AD01	3344.00	12v	18.6a	n/a	26 Bar	470	590	228
ASA0177AD02	3344.00	24v	9.3a	n/a	26 Bar	470	590	228
ASA0257AD01	4730.00	12v	20.8a	n/a	26 Bar	555	690	259
ASA0257AD02	4730.00	24v	10.4a	n/a	26 Bar	555	690	259
ASA0257AD03	5337.00	12v	2 x 20.8a	n/a	26 Bar	555	690	259
ASA0257AD04	5337.00	24v	2 x 10.4a	n/a	26 Bar	555	690	259
ASA0367AD01	6178.00	12v	2 x 20.8a	n/a	26 Bar	650	770	271
ASA0367AD02	6178.00	24v	2 x 10.4a	n/a	26 Bar	650	770	271
ASA0177AD01BP	3396.00	12v	18.6a	2 bar*	26 Bar	470	590	228
ASA0177AD02BP	3396.00	24v	9.3a	2 bar*	26 Bar	470	590	228
ASA0257AD03BP	5454.00	12v	2 x 20.8a	2 bar*	26 Bar	555	690	259
ASA0257AD04BP	5454.00	24v	2 x 10.4a	2 bar*	26 Bar	555	690	259
ASA0367AD01BP	6359.00	12v	2 x 20.8a	2 bar*	26 Bar	650	770	271
ASA0367AD02BP	6359.00	24v	2 x 10.4a	2 bar*	26 Bar	650	770	271

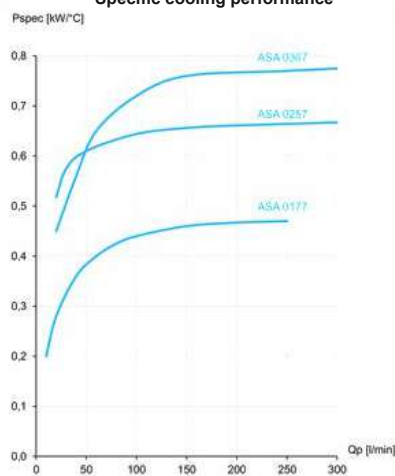
* 0.5 or 3.5 bar bypass available on request



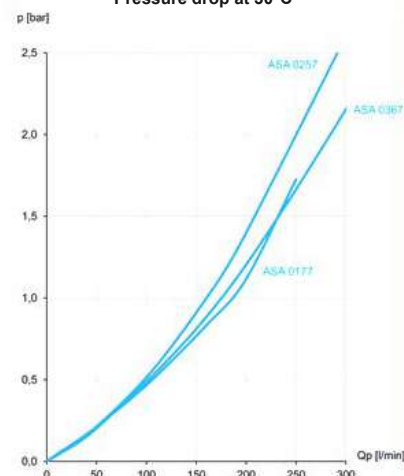
Must use with connector kits for ports - see page 429

More options
on page 432

Specific cooling performance



Pressure drop at 30°C

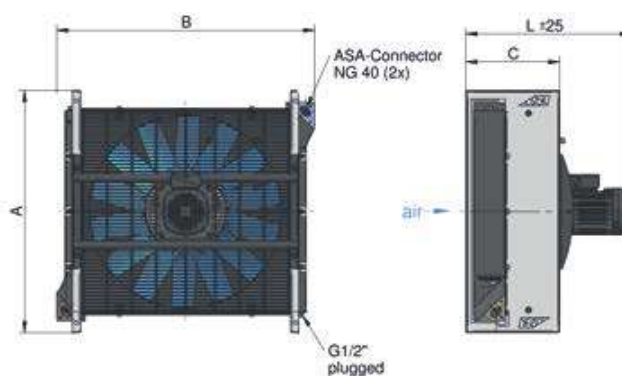

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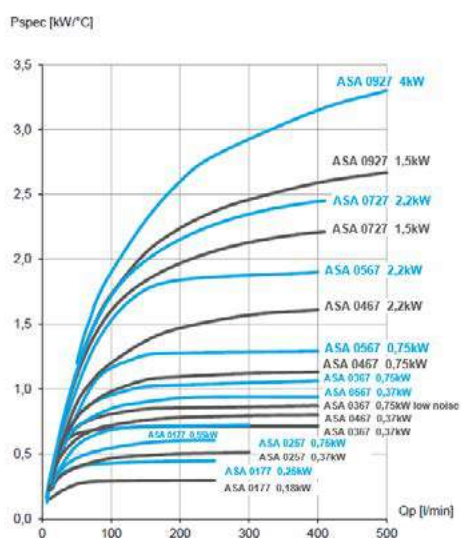
ASA Series - 240/415v AC (Motor not included)

Part #	List Price \$	Motor Size	Max Pressure	Dimensions (mm)			
				A	B	C	L
ASA0177AA20NM	4459.00	0.55kW 2P - D71(B14)	26 Bar	530	582	260	486
ASA0177AA40NM	4362.00	0.25kW 4P 0.18kW 6P - D71(B14)	26 Bar	530	582	260	486
ASA0257AA47NM	5307.00	0.75kW 4P - D80(B14)	26 Bar	635	682	270	520
ASA0257AA66NM	5307.00	0.37kW 6P - D80(B14)	26 Bar	635	682	270	520
ASA0367AA46NM	6272.00	0.75kW 4P - D80(B14)	26 Bar	720	762	280	533
ASA0367AA66NM	6272.00	0.37kW 6P - D80(B14)	26 Bar	720	762	280	533
ASA0467AA47NM	8824.00	0.75kW 4P - D80(B14)	26 Bar	785	837	290	550
ASA0467AA66NM	8824.00	0.37kW 6P - D80(B14)	26 Bar	785	837	290	550
ASA0567AA47NM	9056.00	0.75kW 4P - D80(B14)	26 Bar	860	920	290	543
ASA0567AA66NM	8385.00	0.37kW 6P - D80(B14)	26 Bar	860	920	290	543
ASA0727AA4ANM	12191.00	2.2kW 6P - D100(B14)	26 Bar	960	1012	360	640
ASA0727AA6ANM	12035.00	1.5kW 6P - D100(B14)	26 Bar	960	1012	360	640
ASA0927AA6ANM	13043.00	1.5kW 2P - D100(B14)	26 Bar	1100	1170	320	664

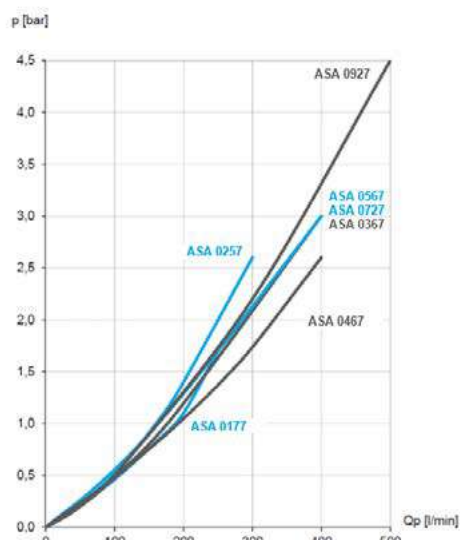
 Must use with connector kits for ports - see page 429



Specific cooling performance



Pressure drop at 30°C



More options
on page 432

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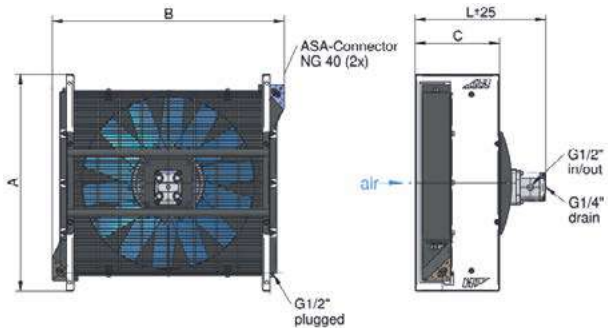
TECH DATA

ASA Series - Hydraulic Drive

Part #	List Price \$	Motor Size	Bypass	Dimensions (mm)		
				A	B	L
ASA0177AH11	5518.00	Group 2 DIN 11cc	26 bar	530	582	364
ASA0257AH11	6543.00	Group 2 DIN 11cc	26 bar	635	682	383
ASA0367AH11	8681.00	Group 2 DIN 11cc	26 bar	720	762	430
ASA0467AH11	10975.00	Group 2 DIN 11cc	26 bar	785	837	448
ASA0567AH11	11048.00	Group 2 DIN 11cc	26 bar	860	920	448
ASA0727AH11	13241.00	Group 2 DIN 11cc	26 bar	960	1012	521
ASA0927AH11	15304.00	Group 2 DIN 11cc	26 bar	1100	1170	475

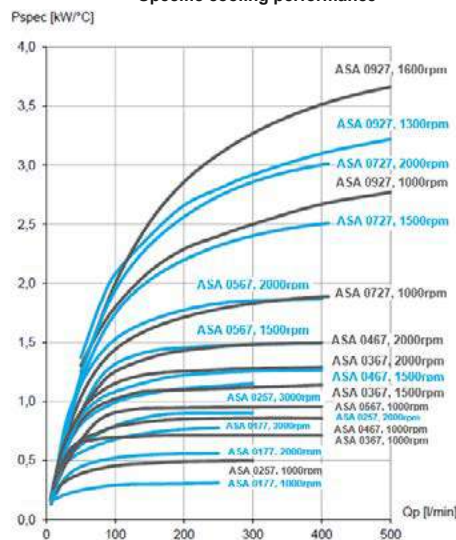


Must use with connector kits for ports - see page 429

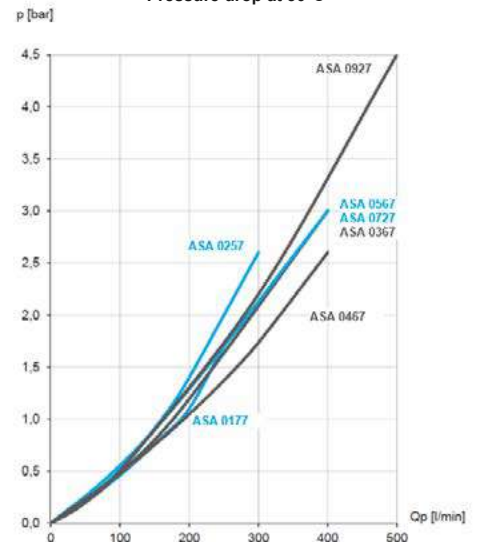


More options
on page 432

Specific cooling performance



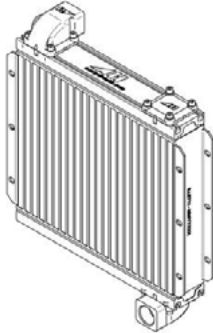
Pressure drop at 30°C



TECH
DATA

TT Series Connector Kit

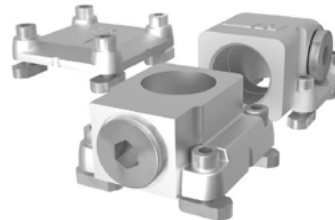
Part #	List Price \$	Port Size	Type
ILLZSET5G25	246.00	1" BSPP	2 x 90°
ILLZSET5G32	329.00	1.1/4" BSPP	2 x 90°
ILLZSET5G25A	246.00	1" BSPP	2 x Straight
ILLZSET5G25B	246.00	1" BSPP	1 x 90°, 1 x Straight



ILLZSET5G25A



ILLZSET5G25B



TECH
DATA

ASA Series Connectors

Part #	List Price \$	Port Size	Type
ILLZASA32G32	95.00	1.1/4" BSPP	2 connectors required per cooler
ILLZASA40G40	116.00	1.1/2" BSPP	2 connectors required per cooler
ILLZASA32U20	95.00	1.5/8" UNO	2 connectors required per cooler
ILLZASA40U24	116.00	1.7/8" UNO	2 connectors required per cooler
ILLZASA40-40G12	95.00	1/2" port sandwich plate	

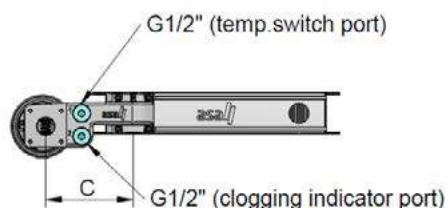
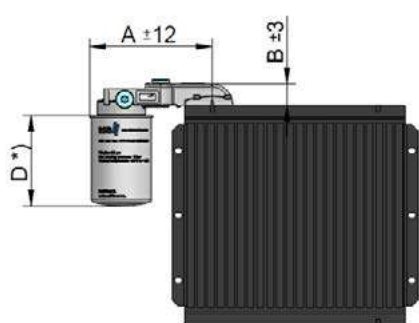


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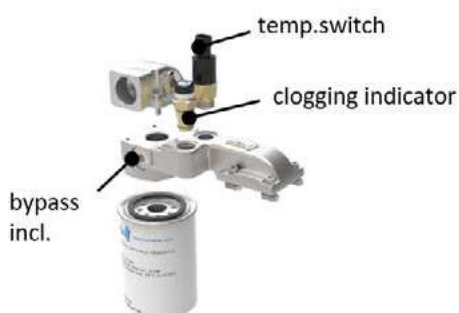
Rail Filter Series

Part #	List Price \$	Spin-on Port Size	Max Flow	Micron	Bypass	Dimensions (mm)			
						A	B	C	D
ILLZRF11G2010	693.00	3/4" BSPP	60 L/min	10µm	2 bar	188	33	135	146
ILLZRF11G2025	693.00	3/4" BSPP	60 L/min	25µm	2 bar	188	33	135	146
ILLZRF12G2010	708.00	3/4" BSPP	100 L/min	10µm	2 bar	188	33	135	191
ILLZRF12G2025	708.00	3/4" BSPP	100 L/min	25µm	2 bar	188	33	135	191
ILLZRF21G3210	853.00	1.1/4" BSPP	180 L/min	10µm	2 bar	228	47	160	181
ILLZRF21G3225	853.00	1.1/4" BSPP	180 L/min	25µm	2 bar	228	47	160	181
ILLZRF22G3210	903.00	1.1/4" BSPP	220 L/min	10µm	2 bar	228	47	160	240
ILLZRF22G3225	903.00	1.1/4" BSPP	220 L/min	25µm	2 bar	228	47	160	240
HFZVEG15	374.00	Electrical clogging indicator G 1/2"							
HFZVOG15	291.00	Optical clogging indicator G 1/2"							



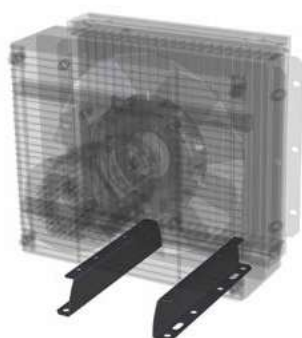
*) depending on the make of the filter element

Filters
available on
page 395

TECH
DATA

Foot Mounting Kits

Part #	List Price \$	Description
ILLEFUSSTT06K	126.00	Mounting feet set (fits TT06)
ILLEFUSSTTK	126.00	Mounting feet set (fits TT07-TT36 Rail)
ILLEFUSSTTHDK	242.00	Heavy duty mounting feet set (fits TT07-TT36 Rail)

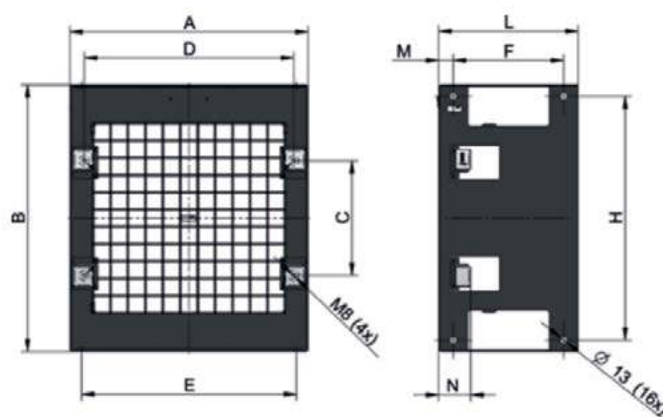
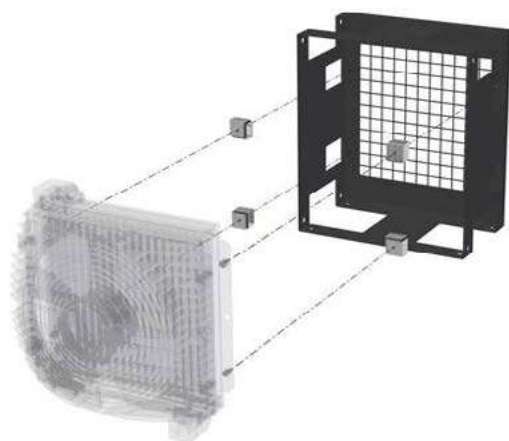


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Protection Housings

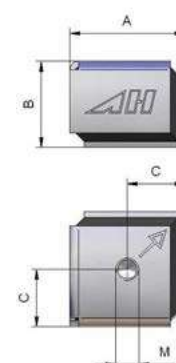
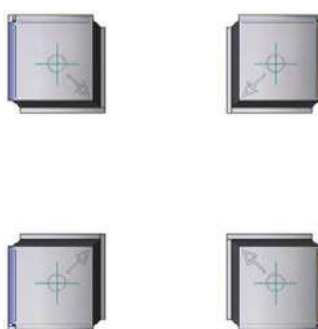
Part #	List Price \$	Description
ILLEGAKT07GT	1407.00	Protection housing kit TT07 Rail
ILLEGAKT11GT	1553.00	Protection housing kit TT11 Rail
ILLEGAKT16GT	1761.00	Protection housing kit TT16 Rail



TECH
DATA

Rubber Vibration Absorbers

Part #	List Price \$	Material	Weight	M	Dimensions (mm)		
					A	B	C
MDGQ403008IIK	36.00	Zinc coated steel & natural rubber	0.13	M8 x 10	40	30	20
MDGQ504510IIK	69.00	Zinc coated steel & natural rubber	0.28	M10 x 12	50	45	25
MDGQ755512IIK	165.00	Zinc coated steel & natural rubber	0.659	M12 x 15	75	55	37.5
MDGQ1007516IIK	503.00	Zinc coated steel & natural rubber	1.92	M16 x 16.5	100	75	50



Assembly note: ensure all four arrows point to centre

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TECH
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Temperature Controller DC

Energy saving | Reduced noise level

Part #	List Price \$	Max Power Fan Motor	Max Current Fan	Protection	Weight	Supply
ILLZTC12-2K	494.00	310w	23a (12v DC)	IP67	0.25kg	12v DC (9v-15v)
ILLZTC24-2K	494.00	340w	12a (24v DC)	IP67	0.25kg	24v DC (18v-32v)

Two temperature controllers are required for coolers with twin fans



Technical Data

Material	Polyamide
Mounting Instructions	Any mounting position
Temperature Sensor	ILLZTT5069K (control range 44-45 °C)
Temperature Switch	ILLZTH5069K (set point 50 °C, soft start)
Temperature Switch	ILLZTH6069K (set point 60 °C, soft start)
Temperature Switch	ILLZTH9069K (set point 90 °C, soft start)
Ambient Temperature Range	-20 °C to +85 °C
Storage Temperature Range	-60 °C to +110 °C
12v & 24v DC Coolers Combinations	LL04, LL06 / TT07-25 Rail / ASA0177 - 0367

When using with ILLZTT5069K sensor:

Fan rotation is controlled according to actual oil temperature from 45 °C to 55 °C (maximum fan speed reached).

When using with any IP69 type switch:

Only on/off function, with the advantage that start current is ramped up by controller, saving duration of the fan motor.

TECH
DATA

Temperature Controller DC - for reversible fan drive

Part #	List Price \$	Rated Power Supply	Max Operating Current	Protection	Weight	Supply
ILLZTCB00	831.00	7-40v	30 amp	IP67	0.29kg	12-24v DC

Two temperature controllers are required for coolers with twin fans



Technical Data

Material	Polyamide
Mounting Instructions	Any mounting position
Temperature Sensor	Requires ILLZTT5069K temperature sensor
Oil Temperature Range	-20 °C to +85 °C
Ambient Temperature Range	-40 °C to +95 °C
Compatibility	All ASA DC fan units w/ Metri Pack 280 connection system

Operating fan cycle for reverse fan drive:

Temperature setup: fan starts at 40 °C, reached maximum speed at 60 °C.

- thermal switch = ON
- delay = 30 secs
- 20 secs for accelerations in reverse direction
- fan reversal = 30 secs (max speed)
- 20 secs for deceleration
- delay = 10 secs
- 20 secs for acceleration in normal direction
- fan (forward) = 45 mins (fan speed depends on oil temperature)
- 20 secs for deceleration
- delay = 15 secs
- repeat steps c-j

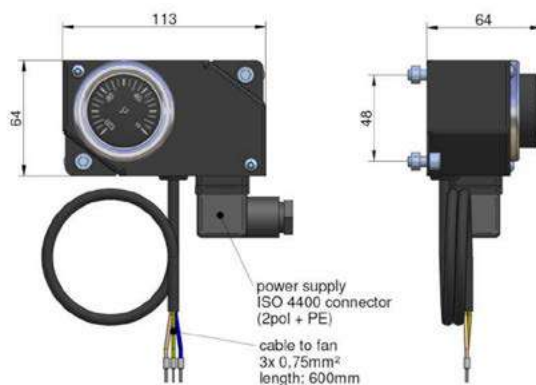
TECH DATA

Temperature Controller AC

Part #	List Price \$	Voltage	Temperature Range	Protection	Weight
ILLZTCACK	494.00	115/230v AC	-30 °C to +120 °C	IP40	0.56kg

Technical Data

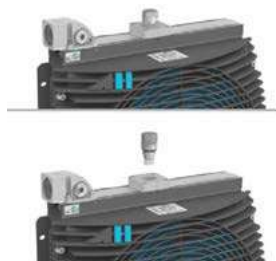
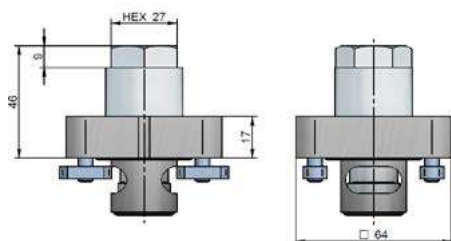
Material	Steel sheet metal, powder coated
Mounting Instructions	Any mounting position
Switch Control Range	0 °C to +120 °C
Contacts Rating	C.1-10(2,5)a/250v
Contacts Rating	C.2-6(2,5)a/250v
Maximum Head Temperature	+85 °C
Maximum Bulb Temperature	+150 °C
Storage Temperature Range	-15 °C to +55 °C
Combinations	For use with TT07-TT36 Rail



TECH DATA

Temperature Bypass Valve (TT Series only)

Part #	List Price \$	To suit	Max Working Temp.	Relief Temp.	Closing Temp.	Max Pressure
ILLZBPT5022K	987.00	TT Rail TT07-TT13	80 °C	< 58 °C	50-60 °C	26 bar
ILLZBPT5027K	987.00	TT Rail TT16-TT36	80 °C	< 58 °C	50-60 °C	26 bar



TECH
DATA

Temperature Sensors

Part #	List Price \$	Description	Connection	Protection	Weight
ILLZTT5069K	179.00	Temperature Sensor 1/2" BSP	AMP Superseal 1.5	IP69K	0.09kg
ILLZTT5067K	207.00	Temperature Sensor 1/2" BSP	Deutsch DT 06-2S	IP67K	0.13kg

Technical Data

Screw Part Material	Brass
Mounting Instructions	Any mounting position
Maximum Tightening Torque	50 Nm
Oil Temperature Range	-20 °C to +100 °C
Ambient Temperature Range	-20 °C to +85 °C
Storage Temperature Range	-60 °C to 110 °C
Temperature Control Unit 12v DC	ILLZTC12-2K
Temperature Control Unit 24v DC	ILLZTC24-2K
12v & 24v DC Coolers Combinations	LL04, LL06 / TT07-TT36 Rail / ASA0177-0367



ILLZTT5069K



ILLZTT5067K



ILLZTH4765K



ILLZTH5069K

TECH
DATA

Temperature Switches

Part #	List Price \$	Connection	Protection	Weight	Switch Temperature
ILLZTH5069K	179.00	AMP Superseal 1.5	IP 69K	0.10kg	50 °C +/-5
ILLZTH6069K	179.00	AMP Superseal 1.5	IP 69K	0.10kg	60 °C +/-5
ILLZTH9069K	179.00	AMP Superseal 1.5	IP 69K	0.10kg	90 °C +/-5
ILLZTH4765K	189.00	ISO 4400	IP 65	0.09kg	50 °C +/-5
ILLZTH6065K	189.00	ISO 4400	IP 65	0.09kg	60 °C +/-5
ILLZTH7067K	211.00	Deutsch DT 06-2S	IP 67	0.14kg	70 °C +/-5

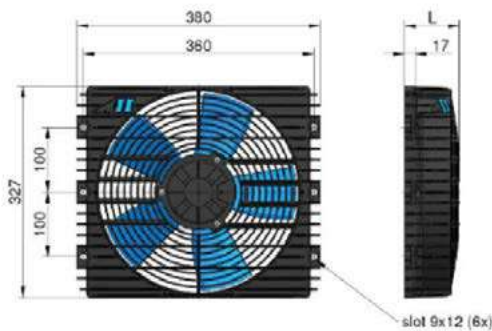
Technical Data

Screw Part Material	Brass
Mounting Instructions	Any position
Maximum Tightening Torque	40 Nm (50Nm for ILLZTH7067K)
Number of Cycles	100,000
Counter Connector	Included
Contact	N.O. (Normal Open)
Minimum Current	200ma
Maximum Current	12v AC (10a), 24v AC (10a), 120v AC (15a), 230v AC (10a)
Oil Temperature Range	-20 °C to +100 °C
Ambient Temperature Range	-20 °C to +80 °C (+85 °C for ILLZTH7067K)
Storage Temperature Range	-60 °C to 110 °C
Combinations	All 1/2" BSPP coolers & connectors

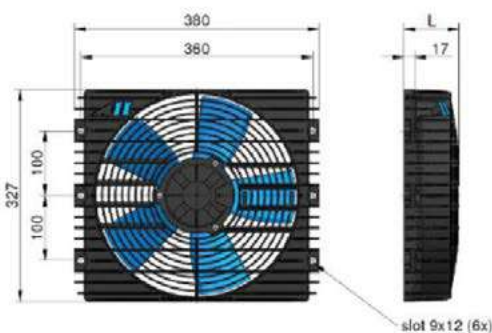
TECH
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ASA Fan Kits

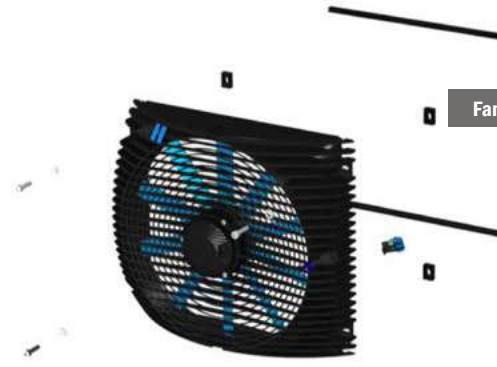
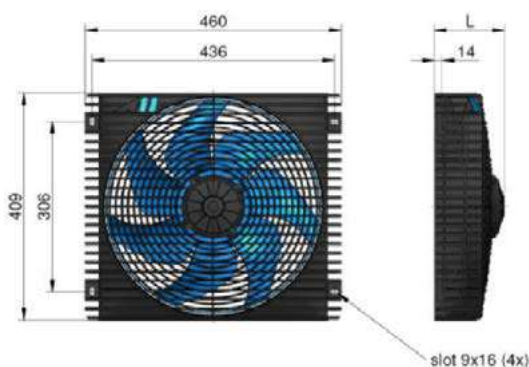
Part #	List Price \$	Voltage	Current	Airflow	Fits Cooler
ILLELE1434A1	442.00	12v DC	5.4a	Pull	Low Line 0043G, 0053G
ILLELE1434A2	442.00	24v DC	2.7a	Pull	Low Line 0043G, 0053G
ILLELE2250A1	504.00	12v DC	5.4a	Pull	Low Line 0023G
ILLELE2250A2	504.00	24v DC	2.7a	Pull	Low Line 0023G
ILLELE0240A1	705.00	12v DC	7.4a	Pull	Low Line 06G
ILLELE0240A2	705.00	24v DC	3.7a	Pull	Low Line 06G
ILLELE0240A3	705.00	12v DC	10.4a	Pull	TT Rail 07RD01
ILLELE0240A4	705.00	24v DC	5.2a	Pull	TT Rail 07RD02
ILLELE024005	722.00	12v DC	16.2a	Pull	TT Rail 07RD03
ILLELE024006	722.00	24v DC	8.1a	Pull	TT Rail 07RD04
ILLELE0295A1	754.00	12v DC	15.4a	Pull	Low Line 0084GD01
ILLELE0295A2	754.00	24v DC	7.7a	Pull	Low Line 0084GD02
ILLELE0295A5	768.00	12v DC	20.8a	Pull	ASA 0115, 257AD03 & 0367, TT Rail 11 & 13, Low Line 0084GD03
ILLELE0295A6	768.00	24v DC	10.4a	Pull	ASA 0115, 257AD04 & 0367, TT Rail 11 & 13, Low Line 0084GD04
ILLELE0295S5	768.00	12v DC	20.8a	Push	ASA 0115, 257AD03 & 0367, TT Rail 11 & 13, Low Line 0084GD03
ILLELE0295S6	768.00	24v DC	10.4a	Push	ASA 0115, 257AD04 & 0367, TT Rail 11 & 13, Low Line 0084GD04
ILLELE0385A1	884.00	12v DC	18.6a	Pull	ASA 0176 - 0257AD01, TT Rail 16 - 25
ILLELE0385A2	884.00	24v DC	9.3a	Pull	ASA 0176 - 0257AD02, TT Rail 16 - 25
ILLELE0385S1	884.00	12v DC	18.6a	Push	ASA 0176 - 0257AD01, TT Rail 16 - 25
ILLELE0385S2	884.00	24v DC	9.3a	Push	ASA 0176 - 0257AD02, TT Rail 16 - 25



Fan kit 0240



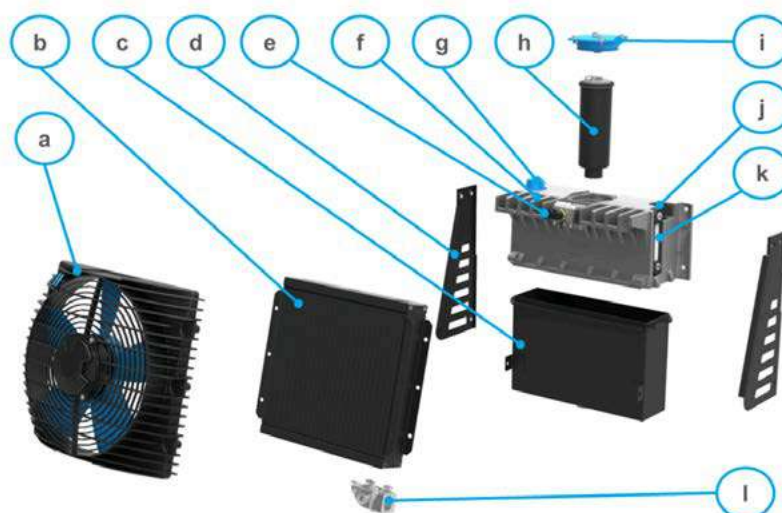
Fan kit 0295



Fan kit 0385

Design your own H-Cube!

a	Fan drive unit
b	Cooler radiator
c	Tank
d	Side frames
e	Electric clogging indicator
f	Integration block
g	Breather
h	Filter
i	Filter cap
j	Optical clogging indicator
k	Tank level gauge
l	connector w/ temperature switch port



The integration block connects tank, filter and heat exchanger. These components can be varied in size and function. As a result the system can be customised to the application, while remaining a standard range product. Also integrated are tank level gauge, bypass valve, clogging indicator and temperature switch port. Due to this flexible system all parts can be combined with the same control flange. The tables below shows the possible options and the part number builder:

PART NUMBER BUILDER:	1	2	3	4	5	6	7	8
	AH	T1	BB	11	H03	PVS	I	B00

1	Product Series
AH	ASA H-Cube

2	Tank Size
T1	17L tank
T2	23L tank
T3	30L tank
R5	4.5GAL tank
R6	6.1GAL tank
R8	7.9GAL tank

3	Filter Combinations	
	RETURN	SUCTION
00	-	-
B0	6µm (max 88 L/min)	-
C0	10µm (max 180 L/min)	-
D0	16µm (max 185 L/min)	-
E0	25µm (max 195 L/min)	-
0B	-	90µm
BB	6µm (max 88 L/min)	90µm
CB	10µm (max 180 L/min)	90µm
DB	16µm (max 185 L/min)	90µm
EB	25µm (max 195 L/min)	90µm

4	Cooler Size
07	TT 07 Rail, 2 bar bypass
11	TT 11 Rail, 2 bar bypass
16	TT 16 Rail, 2 bar bypass
25	TT 25 rail, 2 bar bypass

5	Fan Drive
D01	12v DC
D02	24v DC
H03	3cm ³ hydraulic

6	Accessories & Options *
000	No options
00S	Only stainless steel housing
KT0	Temperature control DC
KTS	Temperature control, stainless steel housing
PVS	Tanker truck+ block 210bar, stainless steel housing
PHS	Tanker truck+ block 350bar, stainless steel housing

* Stainless steel and protection housing not available in combination with cooler size TT 25.

+ Tanker truck configuration includes the function of an adjustable pressure relief valve for the whole hydraulic system, return line connection, and hydraulic drive fan control.

7	Clogging Indicator
0	No indicator
I	Optical clogging indicator
E	Electric clogging indicator
C	Combined optical/electric clogging indicator

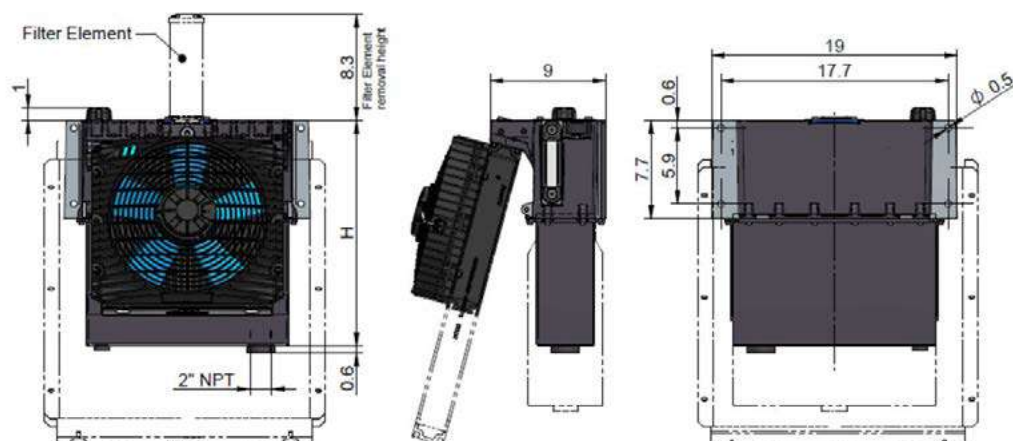
8	Customised
Bxx	Special/custom, to be advised.
	E.g. special connectors, position of connectores etc.

TECH DATA

H-Cube Series (US Version)

Part #	List Price \$	Tank Size	Fan Drive	Filter	Cooler Size	Options	Clogging Indicator
AH R5 D0 16 D02 KTO I	8835.00	4.5 gallon	24v DC	16µm return filter*	TT16 rail 2bar bypass	Temperature control DC	Optical
AH R8 D0 16 D02 KTO I	8937.00	7.9 gallon	24v DC	16µm return filter*	TT16 rail 2bar bypass	Temperature control DC	Optical
AH R5 D0 16 H03 PVS 000 I	16631.00	4.5 gallon	3cc Hydraulic	16µm return filter*	TT16 rail 2bar bypass	Stainless steel housing**	Optical
AH R8 D0 16 H03 PVS 000 I	16734.00	7.9 gallon	3cc Hydraulic	16µm return filter*	TT16 rail 2bar bypass	Stainless steel housing**	Optical

* 1.75 bar bypass ** with adjustable inbuilt relief system 210 bar



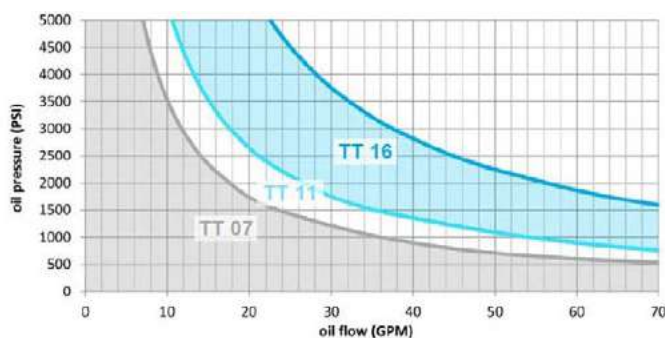
Tank Size	
Capacity	Height (H)
4.5 gallon	17.13"
6.1 gallon	18.78"
7.9 gallon	23.50"

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The actual performance output of the H-cube system is a combination of the cooler size (radiator core) and the type of fan drive.

Choose the possible performances from the table below. The shown performance is the maximum possible specific cooling performance depending on the oil flow.

Heat dissipation range (hydraulic drive) by pressure and oil flow:



Heat dissipation in HP at 80°C temperature difference and 12v fan drive:

Cooler	20 G/min	40 G/min	60 G/min
TT 07	16	16	-
TT 11	26	28	29
TT 16	38	41	42
TT 25	67	71	73

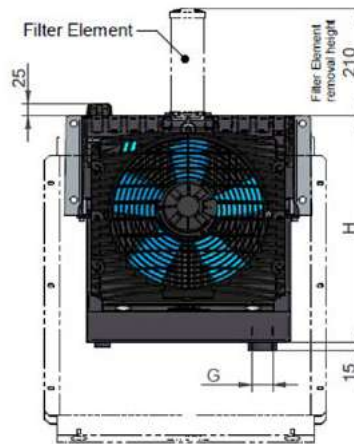
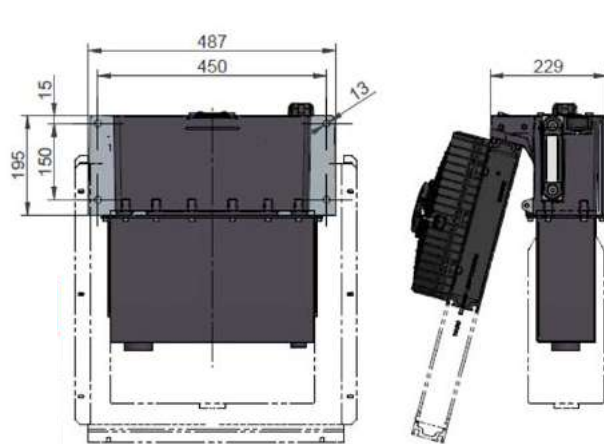
Technical Data	
Radiator material	Brazed aluminium
Radiator air fin	Wavy
Tank material	Steel
Integration block	Anodized cast aluminium
Return/suction filter	3µ to 25µ with 25psi or 44psi bypass
Fan drive	12v or 24v DC
Standard air flow direction	Pulling
Weight (dry)	25kg to max 45kg



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DATA**
H-Cube Series (EU Version)

Part #	List Price \$	Tank Size	Fan Drive	Filter	Cooler Size	Options	Clogging Indicator
AH T3 D0 25 D02 KT0 E	10515.00	30 Litre	24v DC	16µm return filter*	TT25 Rail 2bar bypass	Temperature control DC	Electric

* 1.75 bar bypass



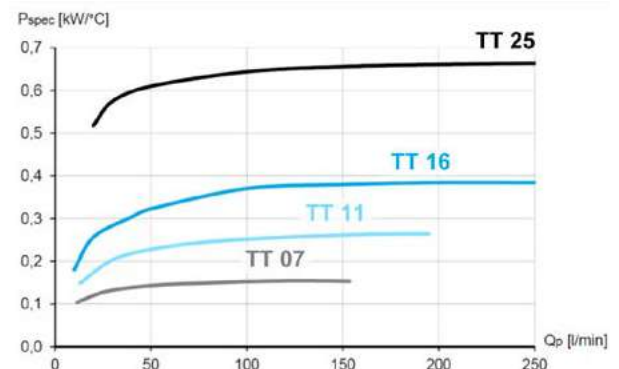
Tank Size		
Capacity	Height (H)	Port (G)
17L	435mm	1.1/4"
23L	477mm	2"
30L	597mm	2"

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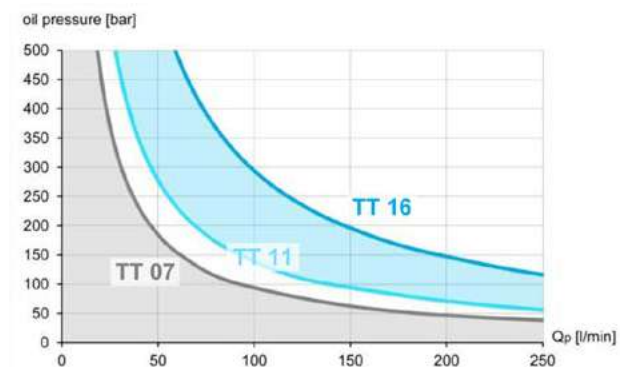
Technical Data

Radiator material	Brazed aluminium
Radiator air fin	Wavy
Tank material	Steel
Integration block	Cast aluminium
Return/suction filter	6µ to 25µ with 1.75bar bypass
Suction filter rating	90µ
Fan drive	12v or 24v DC
Weight (dry)	25kg to max 50kg

Specific cooling performance (with 12v or 24v DC fan drive:



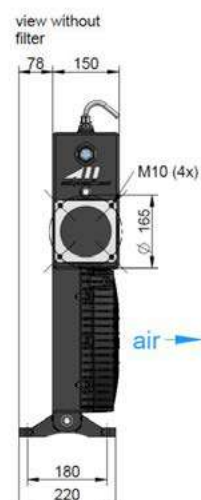
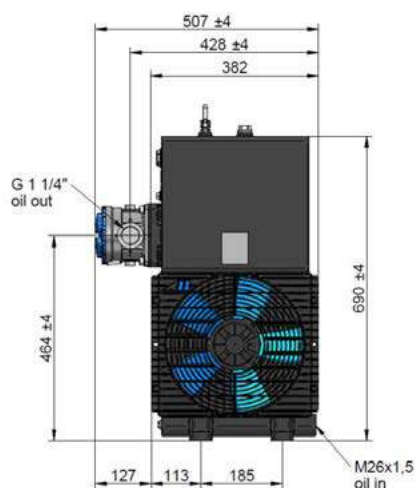
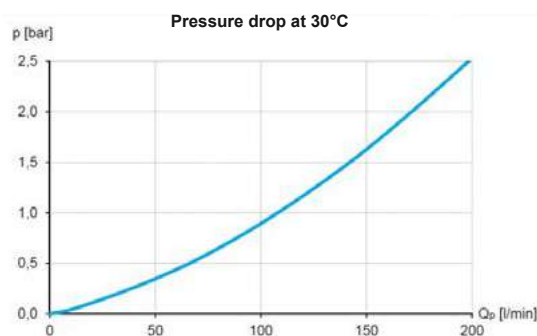
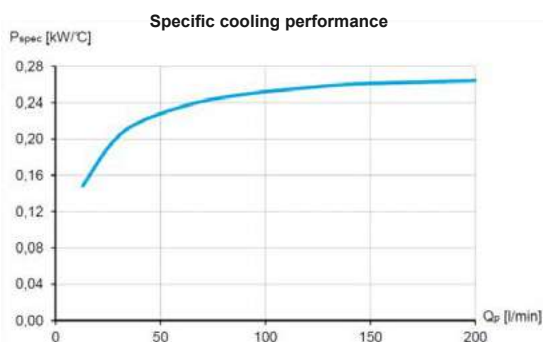
Cooling performance range (tanker truck types) to select by pressure and oil flow:



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Oil/Air Cooler with Integrated Suction Filter & Tanks

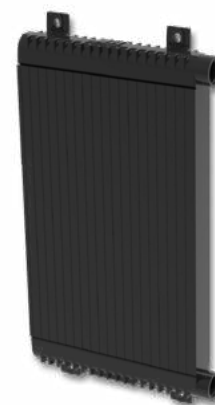
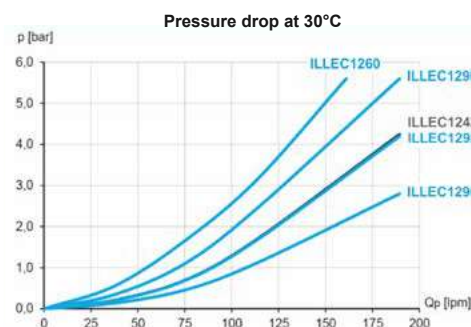
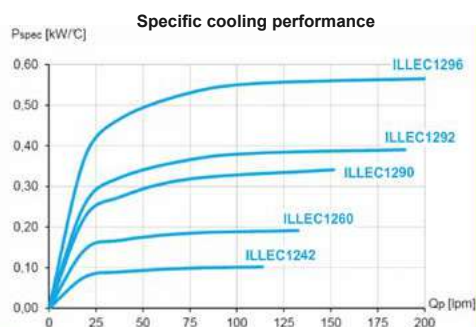
Part #	List Price \$	Motor	Current	Voltage	Max Pressure	Protection	Tank
2734.00	2604.00	0.25 kW	15.0a	12v	1.2 bar	IP68	12 ltr
2734.00	2604.00	0.25 kW	7.7a	24v	1.2 bar	IP68	12 ltr



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12 Series Radiator Cores

Part #	List Price \$	Material	Max Pressure	Ports	Size (mm)
ILLEC1242K	712.00	Aluminium	26 bar	SAE 16	330 x 220
ILLEC1260K	903.00	Aluminium	26 bar	SAE 16	540 x 220
ILLEC1290K	1117.00	Aluminium	26 bar	SAE 16	540 x 320
ILLEC1292K	1216.00	Aluminium	26 bar	SAE 16	540 x 420
ILLEC1296K	1852.00	Aluminium	26 bar	SAE 20	540 x 630

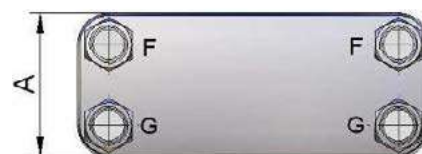
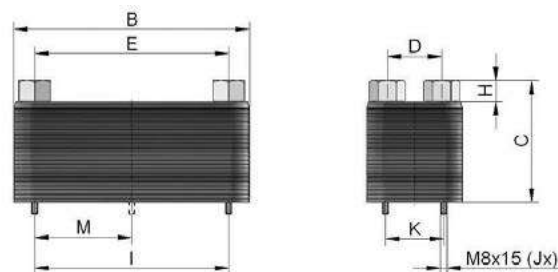


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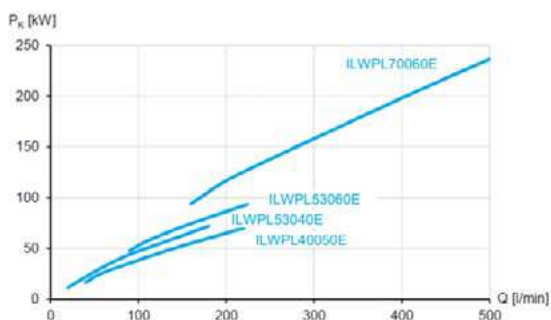
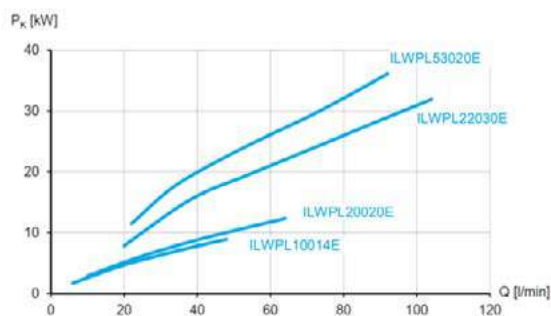
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Brazed Plate Heat Exchangers

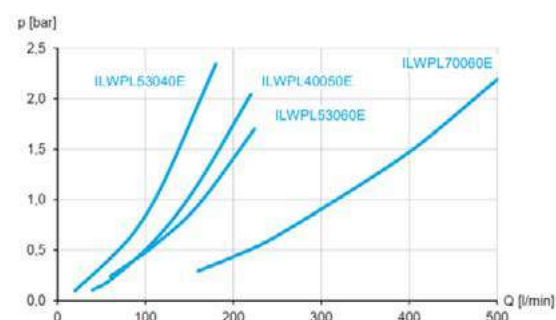
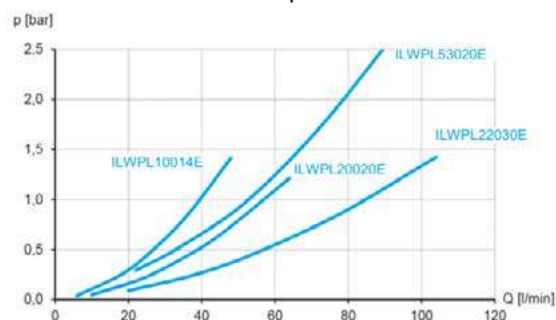
Part #	List Price \$	Max Pressure	Ports F/G	Dimensions (mm)						
				A	B	C	D	E	H	K
ILWPL10014EP	886.00	30 bar	1/2" BSPP	73	205	64.5	42	172	27	-
ILWPL20020EP	1044.00	30 bar	3/4" BSPP	80	194	82	40	154	27	-
ILWPL22030EP	1424.00	30 bar	1" & 3/4" BSPP	106	306	109	50	250	27	40
ILWPL22060EP	1833.00	30 bar	1" & 3/4" BSPP	106	306	181	50	250	27	40
ILWPL40050EP	2408.00	30 bar	1" BSPP	124	304	157	70	250	27	75
ILWPL53020EP	1988.00	30 bar	1" BSPP	124	504	85	64	444	27	75
ILWPL53040EP	2546.00	30 bar	1" BSPP	124	504	133	64	444	27	75
ILWPL53060EP	3238.00	30 bar	1" BSPP	124	504	181	64	444	27	75
ILWPL70020EP	3033.00	30 bar	1.1/2" BSPP	246	528	86.5	174	456	27	150
ILWPL70060EP	6210.00	30 bar	1.1/2" BSPP	246	528	183	174	456	27	150
ILWPL70120EP	10041.00	30 bar	1.1/2" BSPP	246	528	327	174	456	27	150
ILWPL70160EP	12894.00	30 bar	1.1/2" BSPP	246	528	423	174	456	27	150



Specific cooling performance



Pressure drop at 30°C



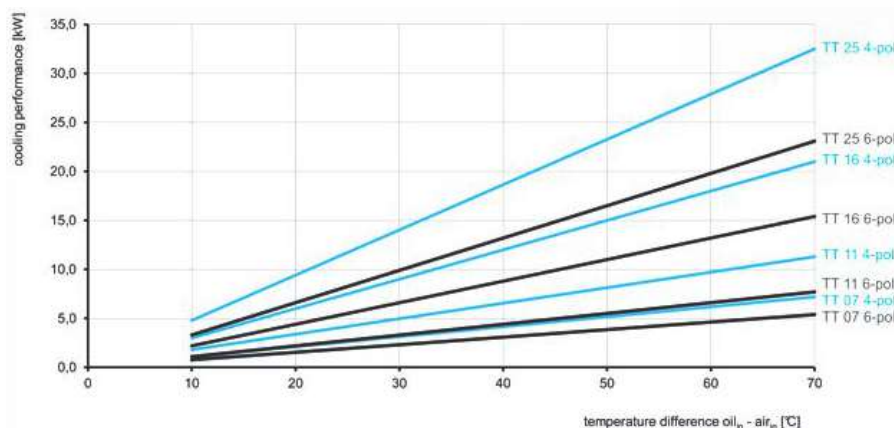
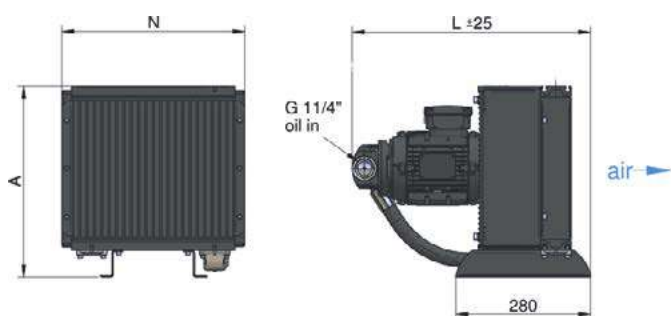
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CC Series - TT Rail - AC (Gerotor Pump)

Larger sizes available on request

Part #	List Price \$	Motor Size	Max Pressure	Flow	Dimensions (mm)		
					A	N	L
ASATT07RA47CC	5529.00	0.75kW 4P 415v	10 bar	30 L/min	355	320	493
ASATT11RA47CC	5954.00	0.75kW 4P 415v	10 bar	30 L/min	395	380	495
ASATT16RA47CC	6845.00	0.75kW 4P 415v	10 bar	30 L/min	520	460	511
ASATT25RA47CC	8129.00	0.75kW 4P 415v	7 bar	30 L/min	660	558	511



**More options
on page 432**

Connector Kits

Part #	List Price \$	Port Size	Type
ILLZATT53G25K	99.00	1" BSPP	Rail connector

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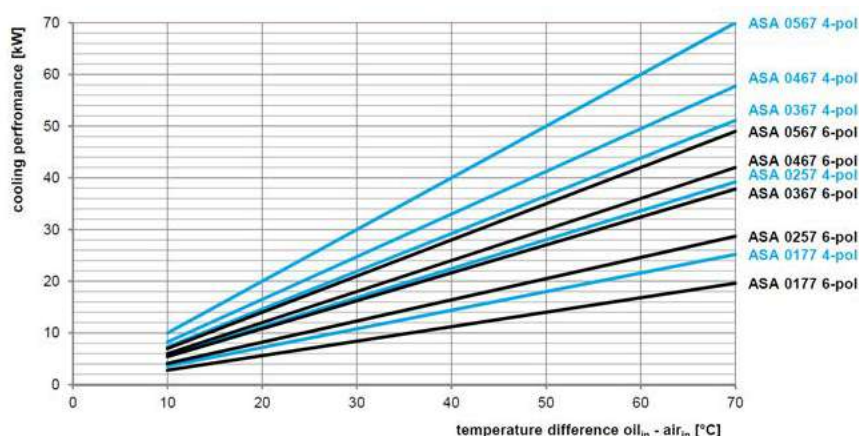
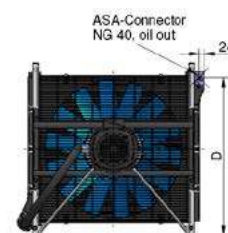
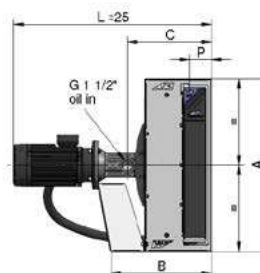
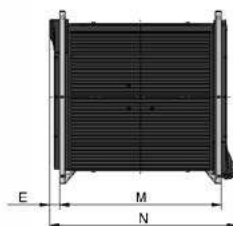
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CC Series - Offline - AC (Screw Pump)

Part #	List Price \$	Motor Power	Motor Current	Oil Flow	Max Pressure	Weight	Dimensions (mm)			
							A	B	L	N
ASA0177AA49CC	12038.00	1.5 kW 4P	3.35a	60 L/min	10 bar	70.7	530	400	807	601
ASA0257AA49CC	12971.00	1.5 kW 4P	3.35a	60 L/min	10 bar	80	635	410	817	701
ASA0367AA49CC	14111.00	1.5 kW 4P	3.35a	60 L/min	8 bar	90.4	720	420	827	781
ASA0467AA49CC	16440.00	1.5 kW 4P	3.35a	60 L/min	8 bar	107.7	785	420	837	856
ASA0567AA49CC	16509.00	1.5 kW 4P	3.35a	60 L/min	8 bar	108.1	860	410	837	931
ASA0177AA68CC	12038.00	0.75 kW 6P	1.95a	40 L/min	9 bar	66.7	530	400	807	601
ASA0257AA68CC	12971.00	0.75 kW 6P	1.95a	40 L/min	9 bar	76	635	410	817	701
ASA0367AA68CC	14111.00	0.75 kW 6P	1.95a	40 L/min	8 bar	86.4	720	420	827	781
ASA0467AA68CC	16440.00	0.75 kW 6P	1.95a	40 L/min	8 bar	103.7	785	420	837	856
ASA0567AA68CC	16509.00	0.75 kW 6P	1.95a	40 L/min	8 bar	104.1	860	410	837	931



Must use with connector kits for ports - see page 429

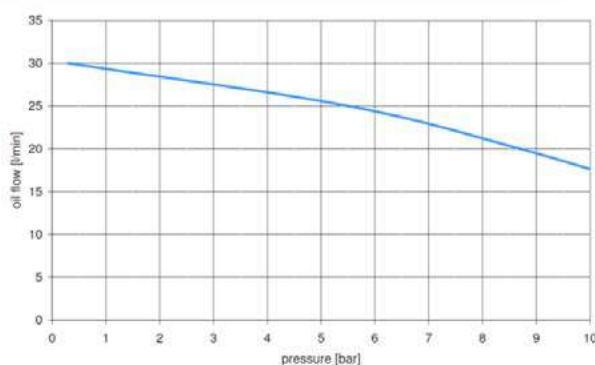
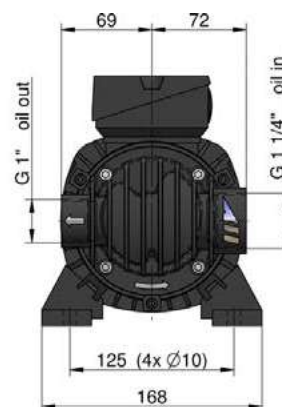
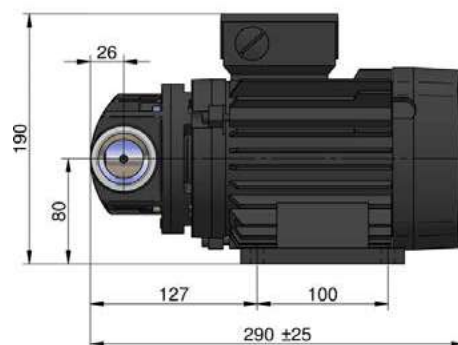


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Gerotor Pump Unit - 415v

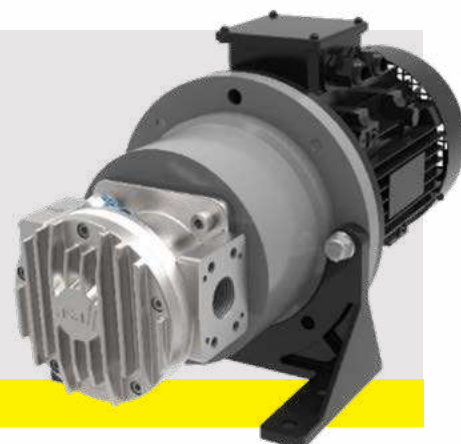
Part #	HY0200758G	HY0201108G
List Price \$	2592.00	3768.00
Motor Power	0.75 kW	1.10 kW
Maximum Oil Viscosity	100 cSt	250 cSt
Maximum Current	2.1a	2.6a
60 Hz	Possible, 276/480v	On request
Weight	13.8kg	16.6kg
Oil Flow	30 L/min	
Negative Pressure	-0.4 bar	
Poles	4 pole	
Ambient Temperature	-20 °C to +40 °C	
Maximum Working Pressure	10 bar	
Maximum Oil Temperature	80 °C (100 °C on request)	
Fluids	Mineral oils	
Pump Housing	Aluminium	
Gerotor	Sintered Steel	



GEROTOR PUMP GENERATION 2

The GERO generation 2 gerotor pumps are constant displacement pumps with compact measurements, high cleanness and a robust attribute. This is a completely new design with trend-setting modules to serve for highest flexibility to the actual application.

The aluminium body of the housing, the steel shaft and the standard NBR sealings are the perfect match for any mineral oil application. The pump is recommended for lubrication circuits as well as for oil supply, cooling and filtration systems.

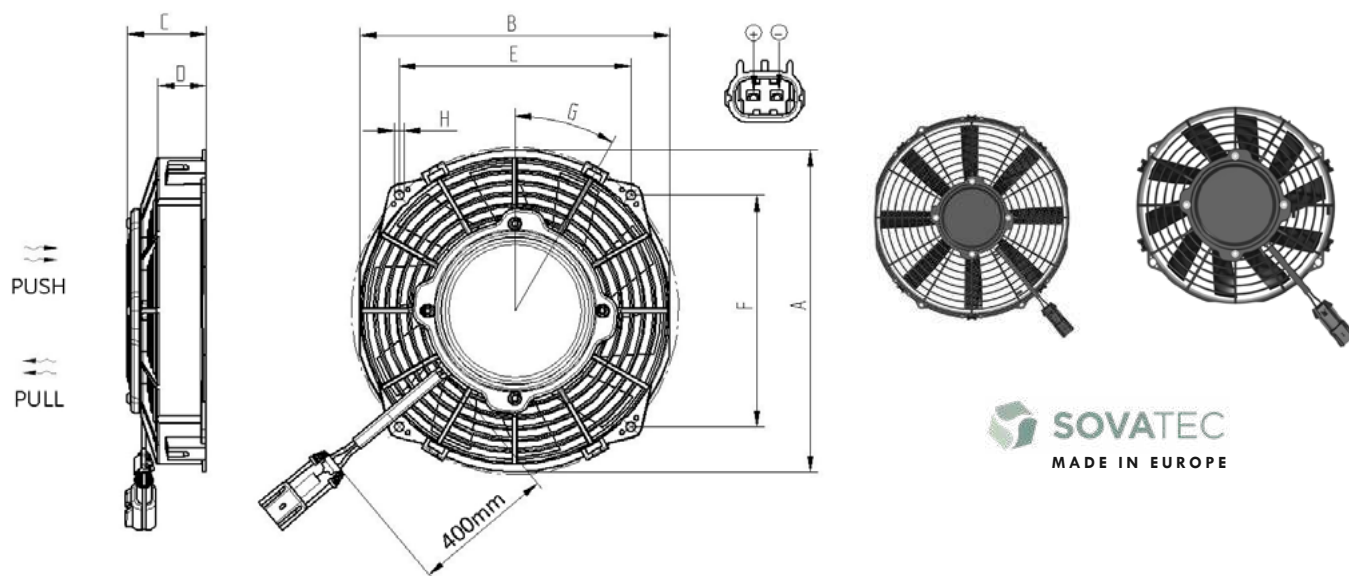


AVAILABLE ON REQUEST - CONTACT US FOR MORE DETAILS

TECH
DATA

MBD Series 12v Fan (IP68)

Part #	List Price \$	Airflow	Power (watts)	Current (amps)	Dimensions (mm)					
					A	B	C	D	E	F
MBD1-190-A12H-AAA	298.00	Push	85	6.6	210	202	52	32	151	151
MBD1-190-A12H-BAA	298.00	Pull	102	7.9	210	202	52	32	151	151
MBD1-225-A12H-AAA	298.00	Push	83	6.4	247	238	52	28	139	206
MBD1-225-A12H-BAA	298.00	Pull	96	7.4	247	238	52	28	139	206
MBD1-255-A12H-AAA	310.00	Push	108	8.3	284.5	269	52	28	142	247
MBD1-255-A12H-BAA	310.00	Pull	111	8.5	284.5	269	52	28	142	247
MBD2-280-B12H-AAA	375.00	Push	121	9.3	310	294	64.5	28	155	269
MBD2-280-B12H-BAA	375.00	Pull	142	10.9	310	294	64.5	28	155	269
MBD2-305-B12H-AAA	387.00	Push	163	12.6	336	321	64.5	28	168	291.5
MBD2-305-B12H-BAA	387.00	Pull	150	11.5	336	321	64.5	28	168	291.5
MBD3-350-C12H-AAA	431.00	Push	242	18.6	383	367	74	28	191	331
MBD3-350-C12H-BAA	431.00	Pull	239	18.3	383	367	74	28	191	331
MBD3-385-C12H-AAA	442.00	Push	223	17.2	414	400	74	28	206.5	385.5
MBD3-385-C12H-BAA	442.00	Pull	245	18.8	414	400	74	28	206.5	385.5

TECH
DATA

MBD Series 24v Fan (IP68)

Part #	List Price \$	Airflow	Power (watts)	Current (amps)	Dimensions (mm)					
					A	B	C	D	E	F
MBD1-190-A24H-AAA	298.00	Push	78	3	210	202	52	32	151	151
MBD1-190-A24H-BAA	298.00	Pull	89	3.4	210	202	52	32	151	151
MBD1-225-A24H-AAA	298.00	Push	107	4.1	247	238	52	28	139	206
MBD1-225-A24H-BAA	298.00	Pull	110	4.2	247	238	52	28	139	206
MBD1-255-A24H-AAA	310.00	Push	118	4.5	284.5	269	52	28	142	247
MBD1-255-A24H-BAA	310.00	Pull	119	4.6	284.5	269	52	28	142	247
MBD2-280-B24H-AAA	375.00	Push	117	4.5	310	294	64.5	28	155	269
MBD2-280-B24H-BAA	375.00	Pull	128	4.9	310	294	64.5	28	155	269
MBD2-305-B24H-AAA	387.00	Push	172	6.6	336	321	64.5	28	168	291.5
MBD2-305-B24H-BAA	387.00	Pull	177	6.8	336	321	64.5	28	168	291.5
MBD3-350-C24H-AAA	431.00	Push	231	8.9	383	367	74	28	191	331
MBD3-350-C24H-BAA	431.00	Pull	231	8.9	383	367	74	28	191	331
MBD3-385-C24H-AAA	442.00	Push	252	9.7	414	400	74	28	206.5	385.5
MBD3-385-C24H-BAA	442.00	Pull	248	9.5	414	400	74	28	206.5	385.5