

# OFFLINE Coolers

Air Cooled Range / CC-Rail / 6.3/9.5 gpm

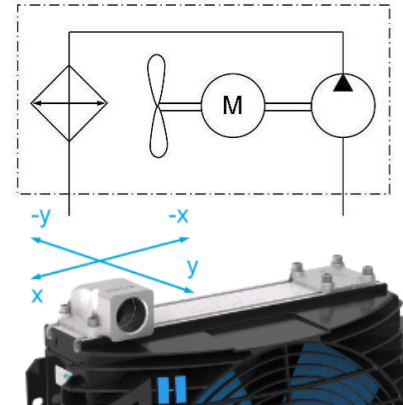


## General Data and Details

The oil / air coolers of our CC series are autonomous cooling systems with an integrated circulation pump. They work as a separate cooling unit or as a filter cooling unit with an adequate filter. The benefits of such circulation coolers are a constant cooling performance and a higher durability, because there are no pressure vibrations or peaks in the cooler unit.

Conditions of use:

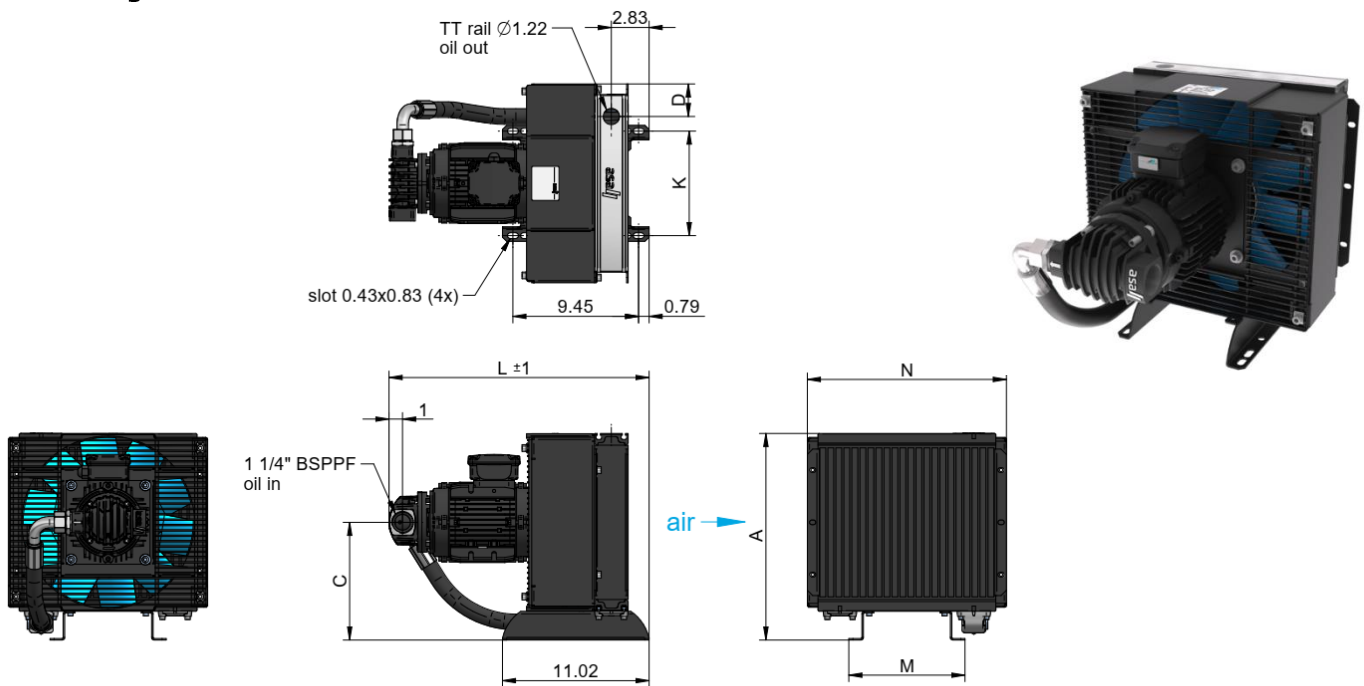
Maximum oil temperature: 176°F, maximum air temperature: 122°F. Motors can be used up to an altitude of 1.500m. For other conditions of use please contact our engineers.



## Connection asa rail

The *asa* rail system is the first worldwide flexible mounting and connection system for air blast heat exchangers. It gives you the free choice of the connector direction through turnable ports. The rail slots in the radiator are the frame structure not only for connecting the ports, also for various possible mounting arrangements such as bypass systems, mounting of the cooler to aggregates, measurement devices and much more. Please contact us to discover the huge potential of this system for your application.

## Scale Drawing



## Dimensions

order number	description	A	C	D	K	L	M	N
		[in]	[in]	[in]	[in]	[in]	[in]	[in]
ASATT07RA48CCU00	TT 07 rail CC 4-pol	13.98	8.07	2.83	5.31	19.41	6.18	12.60
ASATT11RA48CCU00	TT 11 rail CC 4-pol	15.55	8.86	2.44	7.87	19.49	8.74	14.96
ASATT16RA48CCU00	TT 16 rail CC 4-pol	20.47	11.34	2.60	7.87	20.12	8.74	18.11
ASATT25RA48CCU00	TT 25 rail CC 4-pol	25.98	14.09	2.68	11.81	20.12	12.68	21.97
ASATT07RA67CCU00	TT 07 rail CC 6-pol	13.98	8.07	2.83	5.31	19.41	6.18	12.60
ASATT11RA67CCU00	TT 11 rail CC 6-pol	15.55	8.86	2.44	7.87	19.49	8.74	14.96
ASATT16RA67CCU00	TT 16 rail CC 6-pol	20.47	11.34	2.60	7.87	20.12	8.74	18.11
ASATT25RA67CCU00	TT 25 rail CC 6-pol	25.98	14.09	2.68	11.81	20.12	12.68	21.97

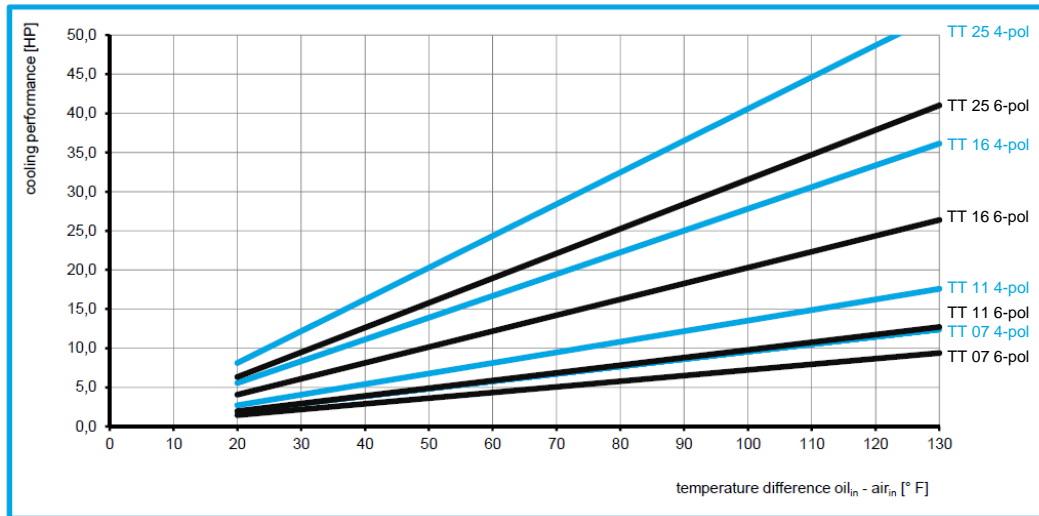
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# OFFLINE Coolers

Air Cooled Range / CC-Rail / 6.3/9.5 gpm



## Performance



## Technical Data

order number	description	oil flow	max. working pressure	motor power	motor current	rotation	air flow	noise level	weight
		[gpm]	[PSI]	[HP]	[A]	[rpm]	[SCFM]	[dB(A)]	[lbs]
ASATT07RA48CCU00	TT 07 rail CC 4-pol	9.5	145	1.50	2.17	1720	335	69	64
ASATT11RA48CCU00	TT 11 rail CC 4-pol	9.5	145	1.50	2.17	1720	600	74	74
ASATT16RA48CCU00	TT 16 rail CC 4-pol	9.5	145	1.50	2.17	1720	1024	79	84
ASATT25RA48CCU00	TT 25 rail CC 4-pol	9.5	75	1.50	2.17	1720	2520	83	106
ASATT07RA67CCU00	TT 07 rail CC 6-pol	6.3	145	0.75	tba*	tba*	225	60	66
ASATT11RA67CCU00	TT 11 rail CC 6-pol	6.3	145	0.75	tba*	tba*	405	61	76
ASATT16RA67CCU00	TT 16 rail CC 6-pol	6.3	145	0.75	tba*	tba*	741	67	86
ASATT25RA67CCU00	TT 25 rail CC 6-pol	6.3	115	0.75	tba*	tba*	1644	73	107

The maximum suction pressure is -0,4 bar. The viscosity range is <100cSt. Motor voltage: 230/400V @ 50Hz\*. The protection level is IP55.

## Design

radiator material	aluminium
radiator air fin shape	wavy
pump type	gerotor
pump material (housing)	aluminium
sheet metal material	powder coated steel
suitable fluids	mineral oil

## Connection (UN 1 5/8")

ILLZATT53U16K	requires 1pc per cooler
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## Options

asa rail connector	ILLZSET5U20U00 (UN 1 5/8")
temperature switch	122°F, 140°F
Rail filter	integrated spin on filter
motor data*	alternative voltages, frequencies, protection levels, etc on request

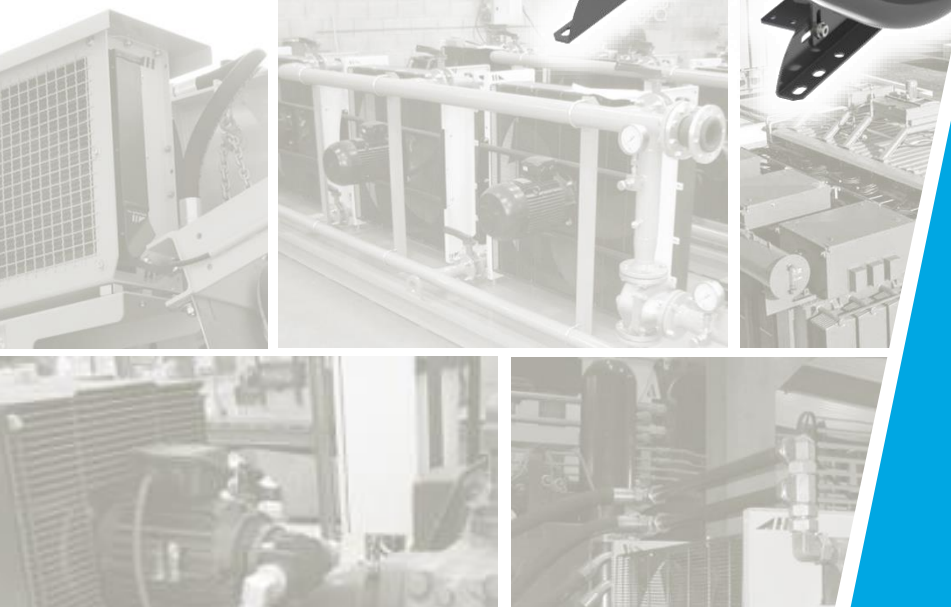




# Thermal Systems

OFFLINE Coolers / Air Cooled Range

CC-2 Rail 6 – 32 gpm



# OFFLINE Coolers

Air Cooled Range / CC-2 Rail / 6 - 32 gpm

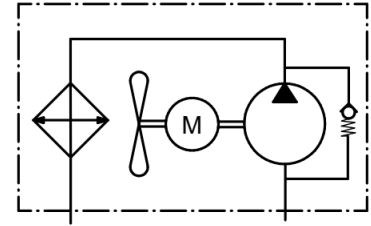


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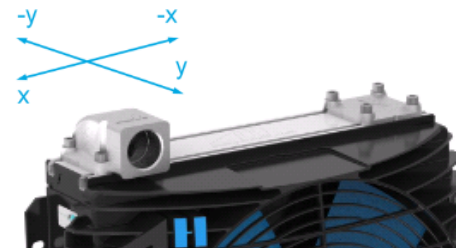
### Conditions of use:

Maximum oil temperature: 176°F, maximum air temperature: 122°F. Motors can be used up to an altitude of 4900 ft. For other conditions of use please contact our engineers.

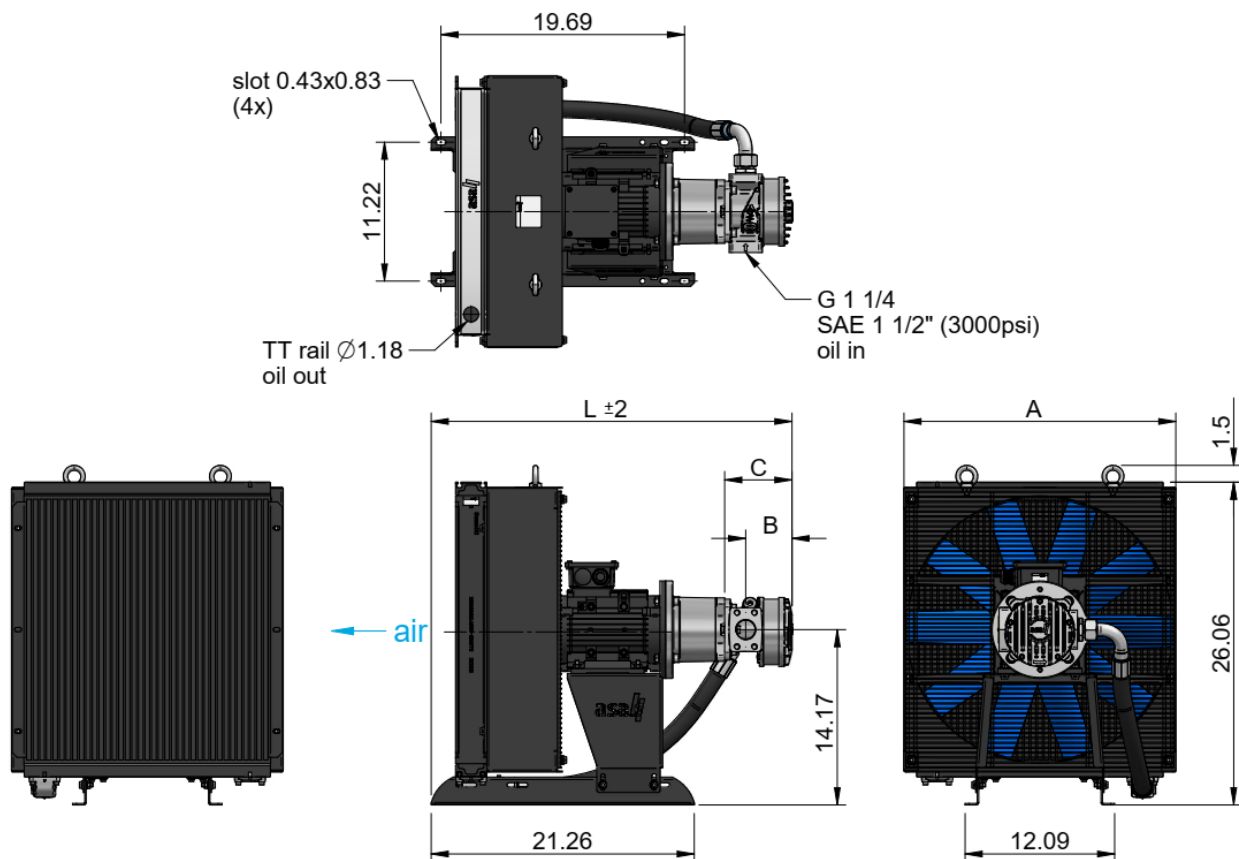


## Connection

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## Scale Drawing



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# OFFLINE Coolers

## Air Cooled Range / CC-2 Rail / 6 - 32 gpm



### Dimensions

order number	description	A	B	C	L	weight
		[in]	[in]	[in]	[in]	[lbs]
ASATT25RA69C2U00	TT 25 rail 460V 1.8HP 6-pol 20cc	21.97	2.91	4.61	28.35	137
ASATT25RA69C4U00	TT 25 rail 460V 1.8HP 6-pol 40cc	21.97	3.35	5.04	28.78	139
ASATT25RA69C8U00	TT 25 rail 460V 1.8HP 6-pol 80cc	21.97	4.21	5.91	29.65	143
ASATT36RA69C8U00	TT 36 rail 460V 1.8HP 6-pol 80cc	28.98	4.21	5.91	30.47	166
ASATT36RA69C4U00	TT 36 rail 460V 1.8HP 6-pol 40cc	28.98	3.35	5.04	29.61	159
ASATT36RA6AC8U00	TT 36 rail 460V 2.4HP 6-pol 80cc	28.98	4.21	5.91	31.61	190
ASATT25RA49C4U00	TT 25 rail 460V 2.4HP 4-pol 40cc	21.97	3.35	5.04	28.78	141
ASATT25RA49C6U00	TT 25 rail 460V 2.4HP 4-pol 60cc	21.97	3.78	5.47	29.21	143
ASATT25RA4AC8U00	TT 25 rail 460V 3.6HP 4-pol 80cc	21.97	4.21	5.91	30.79	161
ASATT36RA49C4U00	TT 36 rail 460V 2.4HP 4-pol 40cc	28.98	3.35	5.04	29.61	163
ASATT36RA4AC8U00	TT 36 rail 460V 3.6HP 4-pol 80cc	28.98	4.21	5.91	31.61	179
ASATT36RA4BC4U00	TT 36 rail 460V 4.9HP 4-pol 40cc	28.98	3.35	5.04	30.75	188

### Technical Data

order number	description	displacement	oil flow (Qp)	motor power	motor current	rotation	air flow	noise level
		[in <sup>3</sup> /rotation]	[gpm]	[hp]	[A]	[rpm]	[SCFM]	[dB(A)]
ASATT25RA69C2U00	TT 25 rail 460V 1.8HP 6-pol 20cc	1.22	6	1.80	2.6	1135	2828	66
ASATT25RA69C4U00	TT 25 rail 460V 1.8HP 6-pol 40cc	2.44	11	1.80	2.6	1135	2793	71
ASATT25RA69C8U00	TT 25 rail 460V 1.8HP 6-pol 80cc	4.88	21	1.80	2.6	1135	2775	73
ASATT36RA69C8U00	TT 36 rail 460V 1.8HP 6-pol 80cc	4.88	21	1.80	2.6	1135	3146	76
ASATT36RA69C4U00	TT 36 rail 460V 1.8HP 6-pol 40cc	2.44	11	1.80	2.6	1135	5002	72
ASATT36RA6AC8U00	TT 36 rail 460V 2.4HP 6-pol 80cc	4.88	21	2.40	3.5	1140	4985	78
ASATT25RA49C4U00	TT 25 rail 460V 2.4HP 4-pol 40cc	2.44	17	2.40	3.4	1735	4384	84
ASATT25RA49C6U00	TT 25 rail 460V 2.4HP 4-pol 60cc	3.66	25	2.40	3.4	1735	4331	84
ASATT25RA4AC8U00	TT 25 rail 460V 3.6HP 4-pol 80cc	4.88	32	3.60	4.6	1720	4331	84
ASATT36RA49C4U00	TT 36 rail 460V 2.4HP 4-pol 40cc	2.44	17	2.40	3.4	1735	4861	87
ASATT36RA4AC8U00	TT 36 rail 460V 3.6HP 4-pol 80cc	4.88	32	3.60	4.6	1720	4790	87
ASATT36RA4BC4U00	TT 36 rail 460V 4.9HP 4-pol 40cc	2.44	17	4.90	6.2	1720	7760	89



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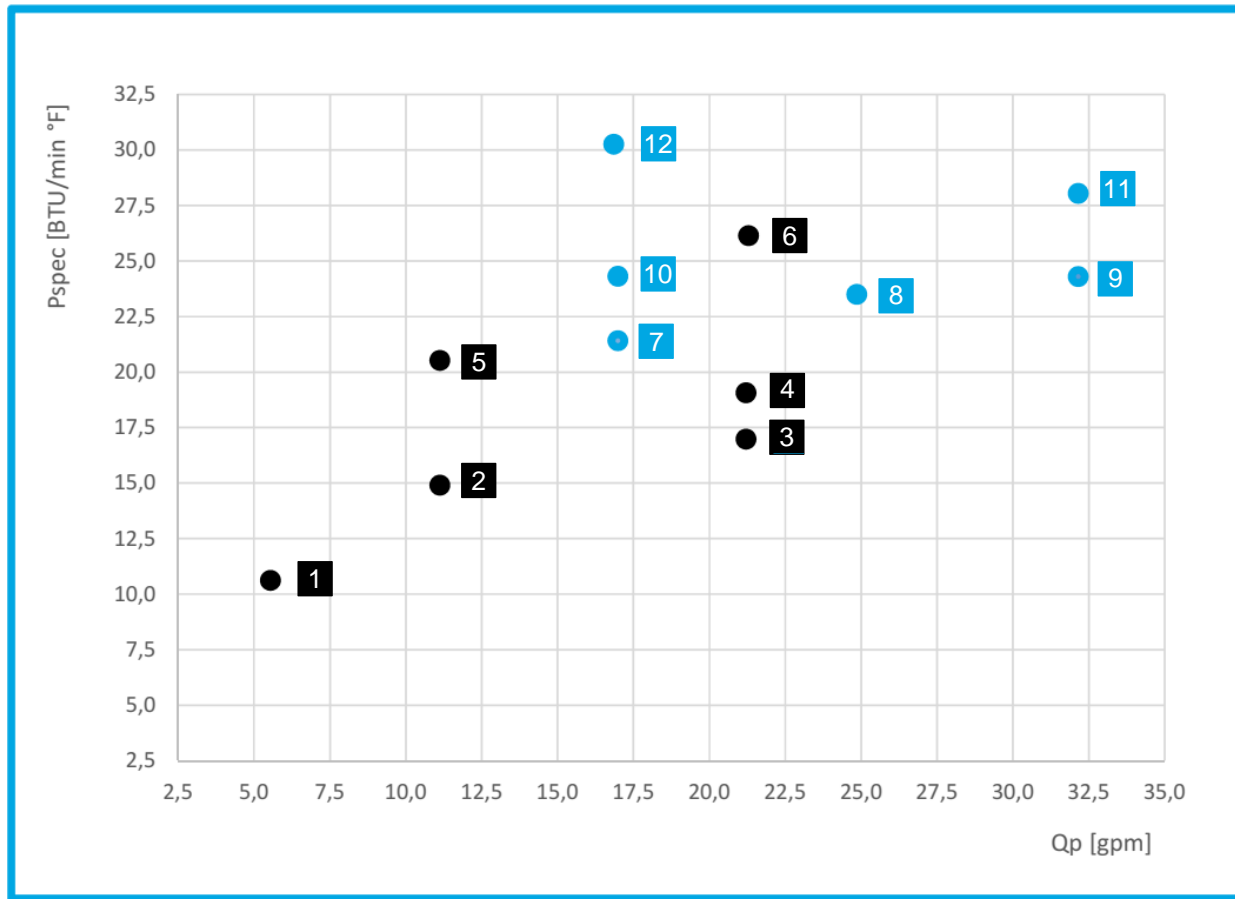
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# OFFLINE Coolers

## Air Cooled Range / CC-2 Rail / 6 – 32 gpm



### Performance



### Technical Data

order number	description	oil flow (Op)	spec. cooling power (Pspec)	performance
		[gpm]	[BTU/min °F]	see diagram
ASATT25RA69C2U00	TT 25 rail 460V 1.8HP 6-pol 20cc	6	10.6	1
ASATT25RA69C4U00	TT 25 rail 460V 1.8HP 6-pol 40cc	11	14.9	2
ASATT25RA69C8U00	TT 25 rail 460V 1.8HP 6-pol 80cc	21	17.0	3
ASATT36RA69C8U00	TT 36 rail 460V 1.8HP 6-pol 80cc	21	19.1	4
ASATT36RA69C4U00	TT 36 rail 460V 1.8HP 6-pol 40cc	11	20.5	5
ASATT36RA6AC8U00	TT 36 rail 460V 2.4HP 6-pol 80cc	21	26.1	6
ASATT25RA49C4U00	TT 25 rail 460V 2.4HP 4-pol 40cc	17	21.4	7
ASATT25RA49C6U00	TT 25 rail 460V 2.4HP 4-pol 60cc	25	23.5	8
ASATT25RA4AC8U00	TT 25 rail 460V 3.6HP 4-pol 80cc	32	24.3	9
ASATT36RA49C4U00	TT 36 rail 460V 2.4HP 4-pol 40cc	17	24.3	10
ASATT36RA4AC8U00	TT 36 rail 460V 3.6HP 4-pol 80cc	32	28.0	11
ASATT36RA4BC4U00	TT 36 rail 460V 4.9HP 4-pol 40cc	17	30.3	12

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# OFFLINE Coolers

## Air Cooled Range / CC-2 Rail / 6 - 32 gpm



### Design

radiator material	aluminum
radiator air fin shape	wavy
pump type	gerotor
pump material (housing)	aluminum
sheet metal material	coated steel

### Pressure

max. working pressure	80 psi
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### Compatibility

max. kinematic viscosity:	up to 2315 SSU at 100°F (depending on motor power)
suitable fluids	mineral oil acc. to DIN51524

### Connection (1 5/16-12UNF)

ILLZATT53U16U00	requires 1pc per cooler (included with cooler)
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### Options

asa rail connector	ILLZATT53U20U00 (1 5/8-12 UN)
temperature switch	ILLZTH5069KU00 (122°F) ILLZTH4765KU00 (122°F) ILLZTH6065KU00 (140°F)
rail filter	integrated spin on filter (page 6)
motor data	alternative voltages, frequencies, protection levels, etc on request
temperature bypass	for asa rail system (page 7)



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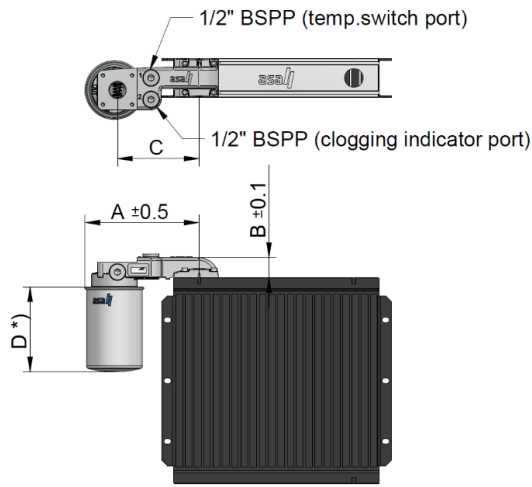
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## Air Cooled Range / Options

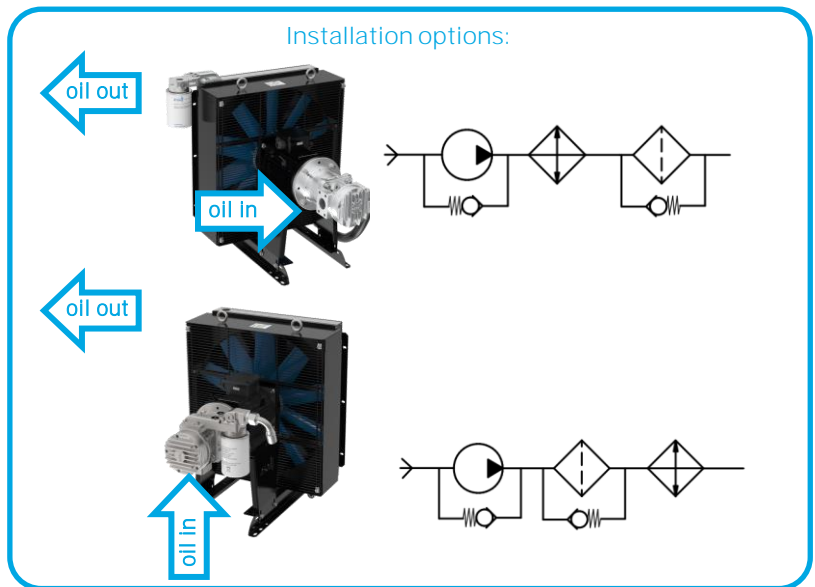
### System for Rail Series



The H-Set is an optional system to integrate another hydraulic set to the asa rail system. The H-Set currently offers 2 sizes of kits to mount a spin on filter to the cooler application. This is a very compact and cost efficient integration. This system can also be combined with various other filters or the shown configurations. Contact us for further options and assistance to select the optimal product for you.



\*) depending on the make of the filter element



## Dimension

order number	description	filter rating [µm]	working pressure [psi]	bypass [psi]	spin on port [UN]	A [in]	B [in]	C [in]	D [in]
ILLZRF11U1110U00	Spin on filter kit rail 10µm, 16gpm	10	145	30	1-12 UNF	7.42	1.30	5.31	5.75
ILLZRF11U1125U00	Spin on filter kit rail 25µm, 16gpm	25	145	30	1-12 UNF	7.42	1.30	5.31	5.75
ILLZRF12U1110U00	Spin on filter kit rail 10µm, 26gpm	10	145	30	1-12 UNF	7.42	1.30	5.31	7.52
ILLZRF12U1125U00	Spin on filter kit rail 25µm, 26gpm	25	145	30	1-12 UNF	7.42	1.30	5.31	7.52
ILLZRF21U2410U00	Spin on filter kit rail 10µm, 50gpm	-	145	30	1 ½-16 UN	8.98	1.85	6.30	-
ILLZRF21U2425U00	Spin on filter kit rail 25µm, 50gpm	-	145	30	1 ½-16 UN	8.98	1.85	6.30	-

## Rail-Filter Block

material:	aluminium
working temperature range:	-4°F to +212°F (oil temperature)*
Sealing to rail flange:	o-ring NBR
bypass:	incl. 30 psi bar standard setting

## Hydraulic Connection

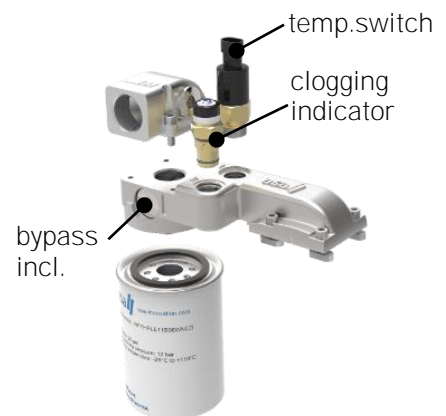
compatible to	any rail system cooler
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## Application

main application	offline circuits, lubrication, cooling and filtration circuits
oil flow	from cooler to filter

## Options

temperature switches	ILLZTH5069KU00 (122°F), ILLZTH4765KU00 (122°F) ILLZTH6065KU00 (140°F)
clogging indicator / indication pressure 21.8 psi	electric: HFZVEG15KU00 N.O. & N.C.contact optical: HFZVOG15KU00



\*...the indicated temperature is the maximum inlet temperature for the cooler radiator.  
Depending on the sealings in use, the application needs appropriate checking.

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# OFFLINE Coolers

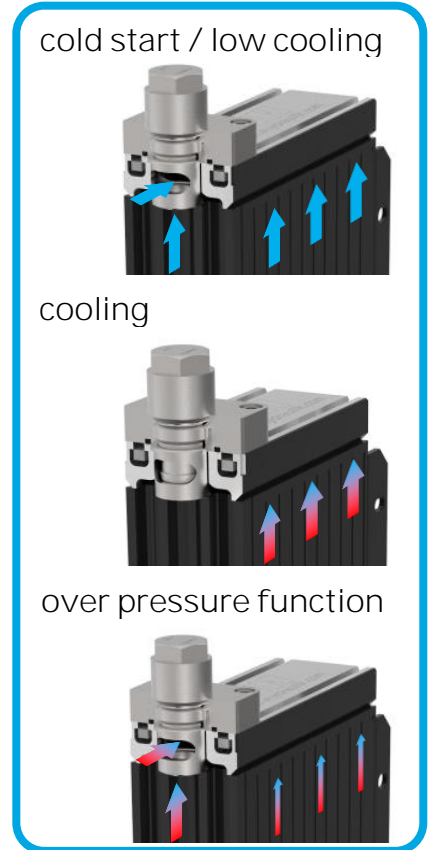
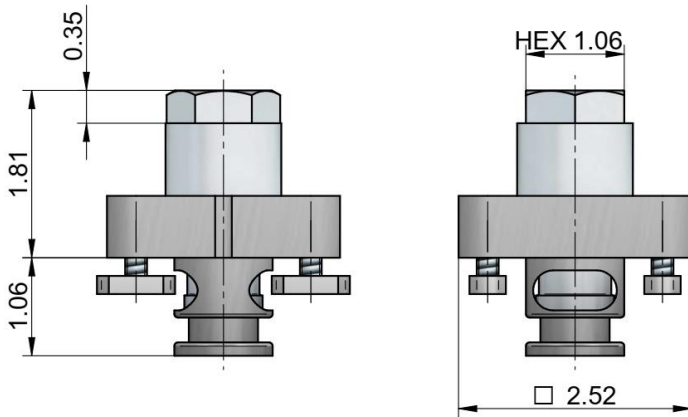
## Air Cooled Range / Options



The thermal bypass valve is an accessory to our oil/air coolers with the asa rail system, also for easy retro fit on existing coolers in the field with internal bypass.

The function is to keep the cooling performance to a minimum on a permanent fan drive system avoiding unwanted cooling at cold start conditions. The valve opens the bypass channel below 122°F and closes for maximum oil flow through the oil channels above 122°F to 140°F. Moreover the function of a spring loaded bypass valve is also integrated to protect the radiator core in case of overpressure and high return oil flows e.g. when differential cylinders are used.

### Dimension on top of cooler (mounted on asa rail system)



### Technical Data

order number	description	max. working temperature	relief temperature	closing temperature	relief pressure	max. working pressure (static)	weight
			[°F]	[°F]	[psi]	[psi]	[lbs]
ILLZBPT5027KU00	Thermo-BP valve 122°F, TT rail	176°F	< 136	122 to 140	70*	370	1.05

\*...opens only if temperature bypass is closed ( $\geq 140^\circ\text{F}$ )

### Materials

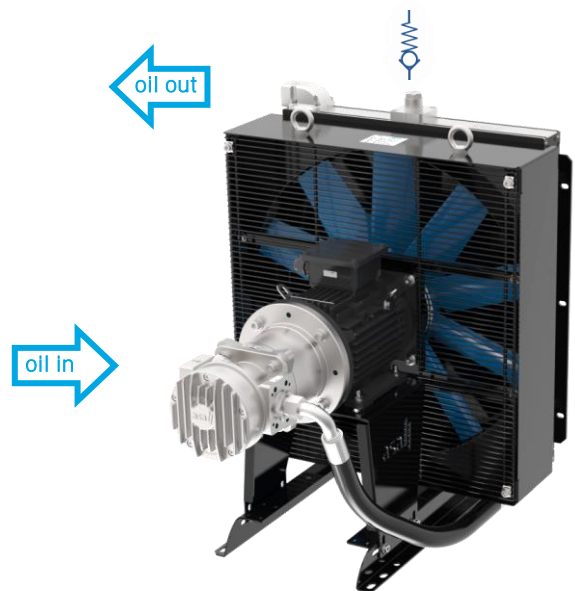
sealings	NBR
rail flange	aluminium
corrosion protection	all exposed surfaces:
temperature valve	zinc-nickel plated

### Availability

ILLZBPT5027KU00	rail system coolers TT25, TT36
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### Compatibility

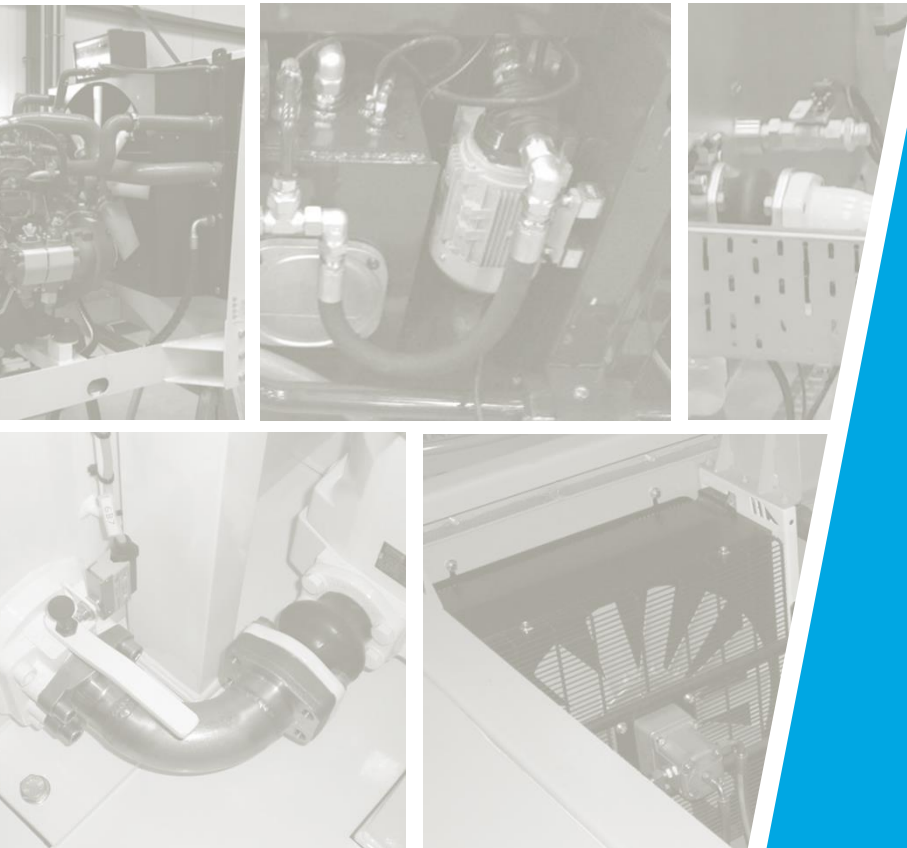
minimum fluid cleanliness	class 20/18/15 acc. to ISO 4406:1999
viscosity range:	45...2315 SSU at 100°F (10...500 cSt) recommended 70,...1155 SSU at 100°F (15...250 cSt)



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make a difference.



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