

Datasheet: 02037532
 Projekt: Compact Cooler V3mod
 Material Nr.:

Fabrication Nr.: 7532
 Site: 1 of 8
 Datum: 07.01.2026



Employer: Brenner
 Design: Special
 Baseframe: galvanized painted
 Total weight: 2216kg

Technical Data:

Casing design:
 Material Outside: 1,0 mm galvanized painted
 Material Inside: 1,0 mm galvanized
 Floor/Roof: 53,0 mm
 Panel: 53,0 mm
 Dimensions: 3323 x 1400 x 2065 (LxWxH)

Size: Special
 Design: Normal
 Access Side: right
 Connection Side: right

Air Connections Inlet

OUTSIDE AIR – (AL)		V1	V2	V3
UPPER OUTSIDE AIR	Air flow [m³/min]	80	80	100
	Air flow [m³/h]	4800	4800	6000
	Light width [mm]	850		
	Light Height [mm]	314		
	Air Velocity [m/s]	5,00	5,00	6,24
	Pressure drop [Pa]	14	14	19
LOWER OUTSIDE AIR	Air flow [m³/min]	80	80	100
	Air flow [m³/h]	4800	4800	6000
	Light width [mm]	850		
	Light Height [mm]	314		
	Air Velocity [m/s]	5,00	5,00	6,24
	Pressure drop [Pa]	14	14	19

INSIDE SUPPLY AIR – (IZL)		V1	V2	V3
UPPER INSIDE SUPPLY AIR	Air flow [m³/min]	28	35	28
	Air flow [m³/h]	1680	2100	1680
	Light width [mm]	850		
	Light Height [mm]	114		
	Air Velocity [m/s]	4,82	6,02	4,82
	Pressure drop [Pa]	13	22	13
LOWER INSIDE SUPPLY AIR	Air flow [m³/min]	28	35	28
	Air flow [m³/h]	1680	2100	1680
	Light width [mm]	850		
	Light Height [mm]	114		
	Air Velocity [m/s]	4,82	6,02	4,82
	Pressure drop [Pa]	13	22	13

Equipment:
 4x Electrical Actuator
 1x Temperature Sensor Outside Air
 1x Temperature Sensor Inside Air Building

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Filter

OUTSIDE AIR – (AL)	V1	V2	V3
Air flow [m³/min]	80	80	100
Air flow [m³/h]	4800	4800	6000
ΔP Clean	35	35	44
ΔP End	200	200	200
ΔP Dim.	117	117	122
ΔP Max.		250	
Filter Class		G4	
Quantity 592x592x48		2	
Quantity 287x592x48		2	

INSIDE SUPPLY AIR – (IZL)	V1	V2	V3
Air flow [m³/min]	28	35	28
Air flow [m³/h]	1680	2100	1680
ΔP Clean	19	23	19
ΔP End	200	200	200
ΔP Dim.	109	112	109
ΔP Max.		250	
Filter Class		G4	
Quantity 592x592x48		2	

Equipment: Special Filter holding Frame - Material galvanized

Fans

OUTSIDE AIR – (AL)	V1	V2	V3
Air flow [m³/min]	80	80	100
Air flow [m³/h]	4800	4800	6000
Static Pressure [mbar]	80	80	110
Nominal Rotation Speed [U/min]	3783	3783	4714
Maximal Rotation Speed [U/min]	5100	5100	5100
Shaft Power [kW]	13,50	13,50	26,2
Motor Rated Power [kW]		26,70	
Motor Voltage [V/Hz]		400/50	
Motor Current [A]		46,30	
Motor Efficiency Class		IE5	

INSIDE SUPPLY AIR – (IZL)	V1	V2	V3
Air flow [m³/min]	28	35	28
Air flow [m³/h]	1680	2100	1680
Static Pressure [mbar]	160	160	160
Nominal Rotation Speed [U/min]	4930	5046	4930
Maximal Rotation Speed [U/min]	5100	5100	5100
Shaft Power [kW]	12,8	15,5	12,8
Motor Rated Power [kW]		17,4	
Motor Voltage [V/Hz]		400/50	
Motor Current [A]		30,30	
Motor Efficiency Class		IE5	

INSIDE Exhaust AIR – (IAL)	V1	V2	V3
Air flow [m³/min]	33	41	33
Air flow [m³/h]	1980	2460	1980
Static Pressure [mbar]	160	160	160
Nominal Rotation Speed [U/min]	4968	5098	4968
Maximal Rotation Speed [U/min]	5100	5100	5100
Shaft Power [kW]	14,2	17,40	14,2
Motor Rated Power [kW]		17,4	
Motor Voltage [V/Hz]		400/50	
Motor Current [A]		30,30	
Motor Efficiency Class		IE5	

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Equipment: Inlet Protection Grid AL – Fan
Inlet Protection Grid IZL – Fan
Mounting/Demounting rollers AL-Fan
Mounting/Demounting rollers IZL-Fan
Rubber buffer AL-Fan
Rubber buffer IZL-Fan
Flexibel Connection Pressure side AL - Fan
Flexibel Connection Pressure side IZL – Fan
PTC – Motor protection AL- Fan
PTC – Motor protection IZL – Fan

Separate delivery of IAL – Fan
Inlet Protection Grid IZL – Fan
Outlet Protection Grid IZL – Fan
Rubber buffer IAL-Fan
Flexibel Connection Suction side IAL – Fan with Flange Ø 250mm according DIN24154 Row 2 Part 2
Flexibel Connection Pressure side IAL – Fan with Flange Ø 250mm according DIN24154 Row 2 Part 2
PTC – Motor protection IAL – Fan
Pipe Silencer Pressure Side length 1300mm

Electrical Connections

Control Cabinet 24V with B&R according wiring diagram 4628a
Motor Connection Box 400V according wiring diagram 4628b
2x Frost Protection sensor
2x Filter Pressure Switch
2x Fouling Sensor Cooler
2x Temperature Sensor

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Cooling Coils

OUTSIDE AIR – (AL)		Variant 1	Variant 2	Variant 3	
Zone B1: Tropics warm and humid (ambient air 27.2 °C, 86 kJ/kg, 1013 mbar)	Cooler Inlet	Air flow [m³/h]	4800	4800	6000
		Air pressure drop [Pa]	96	96	131
		Air Temp. [°C]	38		
		Rel. Humidity [%]	59,8		
		Abs. Humidity [g/kg]	25,2		
		Cooling water temp. [°C]	6		
	Cooler Outlet	Air Temp. [°C]	9		
		Rel. Humidity [%]	100		
		Abs. Humidity [g/kg]	7,1		
		Cooling water temp. [°C]	11		
		Max. dehumidifying [g/kg]	18,1		
		Medium press. drop [kPa]	35,46	35,46	53,65
		Medium Flow [m³/h]	22,6	22,6	28,2
		Cooling Capacity [kW]	121	121	151
Zone B2: Tropics warm and humid (ambient air 27.2 °C, 86 kJ/kg, 1013 mbar)	Cooler Inlet	Air flow [m³/h]	4800	4800	6000
		Air pressure drop [Pa]	70	70	96
		Air Temp. [°C]	56		
		Rel. Humidity [%]	16,6		
		Abs. Humidity [g/kg]	17,2		
		Cooling water temp. [°C]	6		
	Cooler Outlet	Air Temp. [°C]	9		
		Rel. Humidity [%]	100		
		Abs. Humidity [g/kg]	7,1		
		Cooling water temp. [°C]	11		
		Max. dehumidifying [g/kg]	10,1		
		Medium press. Drop [kPa]	33,89	33,89	51,30
		Medium Flow [m³/h]	22	22	27,6
		Cooling Capacity [kW]	118	118	148
Zone A (ambient air 32 °C, 70kJ/kg, 1013 mbar)	Cooler Inlet	Air flow [m³/h]	4800	4800	6000
		Air pressure drop [Pa]	70	70	96
		Air Temp. [°C]	42,5		
		Rel. Humidity [%]	30,5		
		Abs. Humidity [g/kg]	16,1		
		Cooling water temp. [°C]	6		
	Cooler Outlet	Air Temp. [°C]	9		
		Rel. Humidity [%]	100		
		Abs. Humidity [g/kg]	7,1		
		Cooling water temp. [°C]	11		
		Max. dehumidifying [g/kg]	9		
		Medium Flow [m³/h]	17	17	21,3
		Cooling Capacity [kW]	91	91	114

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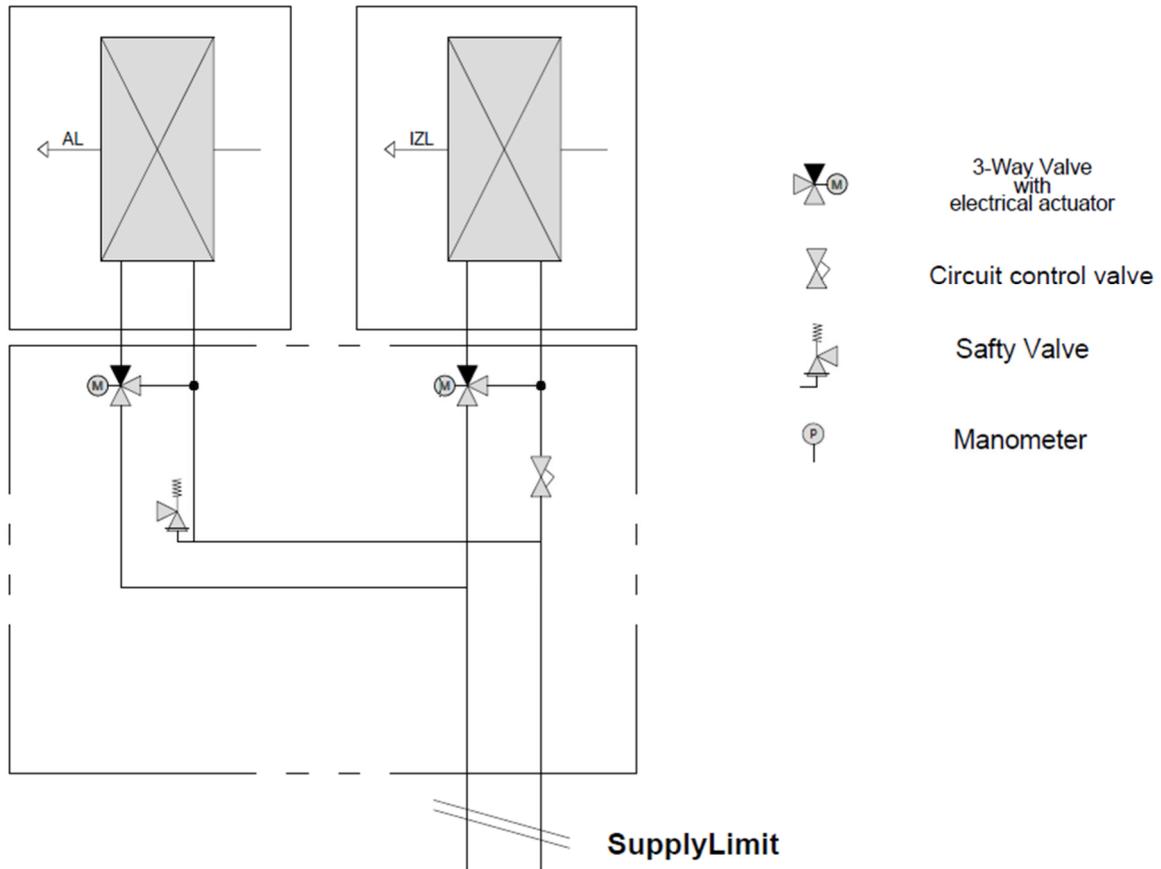
INSIDE SUPPLY AIR – (IZL)		Variant 1	Variant 2	Variant 3	
Zone B1: Tropics warm and humid (ambient air 27.2 °C, 86 kJ/kg, 1013 mbar)	Cooler Inlet	Air flow [m³/h]	1680	2100	1680
		Air pressure drop [Pa]	61	82	61
		Air Temp. [°C]	43		
		Rel. Humidity [%]	48,4		
		Abs. Humidity [g/kg]	26,7		
		Cooling water temp. [°C]	6		
	Cooler Outlet	Air Temp. [°C]	9		
		Rel. Humidity [%]	100		
		Abs. Humidity [g/kg]	7,1		
		Cooling water temp. [°C]	11		
		Max. dehumidifying [g/kg]	19,6		
		Medium press. Drop [kPa]	27,40	41,77	27,40
		Medium Flow [m³/h]	8,8	11	8,8
		Cooling Capacity [kW]	47	59	47
Zone B2: Tropics warm and humid (ambient air 27.2 °C, 86 kJ/kg, 1013 mbar)	Cooler Inlet	Air flow [m³/h]	1680	2100	1680
		Air pressure drop [Pa]	45	60	45
		Air Temp. [°C]	61		
		Rel. Humidity [%]	14		
		Abs. Humidity [g/kg]	18,4		
		Cooling water temp. [°C]	6		
	Cooler Outlet	Air Temp. [°C]	9		
		Rel. Humidity [%]	100		
		Abs. Humidity [g/kg]	7,1		
		Cooling water temp. [°C]	11		
		Max. dehumidifying [g/kg]	11,3		
		Medium press. Drop [kPa]	25,84	39,37	25,84
		Medium Flow [m³/h]	8,6	10,7	8,6
		Cooling Capacity [kW]	46	57	46
Zone A (ambient air 32 °C, 70kJ/kg, 1013 mbar)	Cooler Inlet	Air flow [m³/h]	1680	2100	1680
		Air pressure drop [Pa]	44	60	44
		Air Temp. [°C]	48		
		Rel. Humidity [%]	24,3		
		Abs. Humidity [g/kg]	17		
		Cooling water temp. [°C]	6		
	Cooler Outlet	Air Temp. [°C]	9		
		Rel. Humidity [%]	100		
		Abs. Humidity [g/kg]	7,1		
		Cooling water temp. [°C]	11		
		Max. dehumidifying [g/kg]	9,9		
		Medium Flow [m³/h]	6,8	8,5	6,8
		Cooling Capacity [kW]	36	46	36

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Piping



Equipment:

- 3-way valve AL-Cooling Coil With Electrical Actuator
- 3-way valve IZL-Cooling Coil With Electrical Actuator
- Safety valve
- Circuit control valve
- Stainless Steel Flange 3" inlet
- Stainless Steel Flange 3" outlet
- 3" Compensator NBR Inlet
- 3" Compensator NBR outlet
- Air Connection with loose Flange Ø 250mm according DIN24154 Row 2 Part 2
- Air Connection with loose Flange Ø 315mm according DIN24154 Row 2 Part 2

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Supply Air Acoustic Data									
Total Acoustic Emission Casing									
Frequency	63	125	250	500	1k	2k	4k	8k	Hz
Sound Power level Lw oct.	93	93	94	98	96	91	85	82	dB
Total Soundpower Lw	103								dB
Residue Sound Power	53	64	79	79	82	81	80	70	dB
Overall Residue Sound Power level	90,7								dB
Residue Sound Power A-Rated	61,8	61,9	74,4	80,8	74	63,2	48	38,8	dB(A)
Overall Residue Sound Power level A-Rated	82,5								dB(A)
Sound Pressure level 1m A-Rated	50,8	50,9	63,4	69,8	63	52,2	37	27,8	dB(A)
Overall Sound Pressure level 1m A-Rated *	71,5								dB(A)

Suction Side Connector									
Frequency	63	125	250	500	1k	2k	4k	8k	Hz
Sound Power coupled In	76	83	88	94	93	88	82	79	dB
Sound Attenuation Silencer	0	0	0	0	0	0	0	0	dB
Sound Attenuation Built In Parts	5	7	9	8	8	13	13	14	dB
Total Sound Attenuation	5	7	9	8	8	13	13	14	dB
Residue Sound Power	71	76	79	86	85	75	69	65	dB
Overall Residue Sound Power level	89,5								dB
Residue Sound Power A-Rated	44,8	59,9	70,4	82,8	85	76,2	70	63,8	dB(A)
Overall Residue Sound Power level A-Rated	87,6								dB(A)
Sound Pressure level 1m A-Rated	33,8	48,9	59,4	71,8	74	65,2	59	52,8	dB(A)
Overall Sound Pressure level 1m A-Rated *	76,6								dB(A)

Pressure Side Connector									
Frequency	63	125	250	500	1k	2k	4k	8k	Hz
Sound Power coupled In	77	84	90	95	93	88	83	80	dB
Sound Attenuation Silencer	0	0	0	0	0	0	0	0	dB
Sound Attenuation Built In Parts	6	6	8	9	9	11	9	8	dB
Total Sound Attenuation	6	6	8	9	9	11	9	8	dB
Residue Sound Power	71	78	82	86	84	77	74	72	dB
Overall Residue Sound Power level	89,9								dB
Residue Sound Power A-Rated	44,8	61,9	73,4	82,8	84	78,2	75	70,8	dB(A)
Overall Residue Sound Power level A-Rated	87,6								dB(A)
Sound Pressure level 1m A-Rated	33,8	50,9	62,4	71,8	73	67,2	64	59,8	dB(A)
Overall Sound Pressure level 1m A-Rated *	76,6								dB(A)

* Open Area

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Total Acoustic Emission Fan									
Frequency	63	125	250	500	1k	2k	4k	8k	Hz
Sound Power level Lw oct. Fan suction side	72	79	85	92	90	84	78	75	dB
Sound Power level Lw oct. Fan suction side A-Rated	46	63	76	88	90	85	79	74	dB(A)
Overall Sound Power level Lw Fan suction side A-Rated	93,2								dB (A)
Sound Pressure level 1m Lw oct. Fan suction side A-Rated *	35	52	65	77	79	74	68	63	dB (A)
Overall Sound Pressure level 1m Lw oct. Fan suction side A-Rated *	82,2								dB (A)
Sound Power level Lw oct. Fan pressure side	75	81	87	94	91	85	80	77	dB
Sound Power level Lw oct. Fan pressure side A-Rated	48	65	78	91	91	86	81	76	dB(A)
Overall Sound Power level Lw Fan pressure side A-Rated	95								dB (A)
Sound Pressure level 1m Lw oct. Fan pressure side A-Rated *	37	54	67	80	80	75	70	65	dB (A)
Overall Sound Pressure level 1m Lw oct. Fan pressure side A-Rated *	84								dB (A)
Sound Power level Lw oct. Fan at Casing	92	90	88	87	79	74	63	50	dB
Sound Power level Lw oct. Fan at Casing A-Rated	66	74	80	84	79	75	64	49	dB(A)
Overall Sound Power level Lw oct. Fan at Casing A-Rated	86,9								dB(A)
Sound Pressure level 1m Lw oct. Fan at Casing A-Rated *	55	63	69	73	68	64	53	38	dB(A)
Overall Sound Pressure level 1m Lw oct. Fan at Casing A-Rated *	75,9								dB(A)