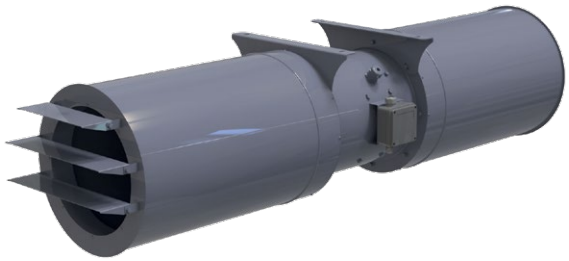
AXIS-JET-CI 60 Hz

Jet axial fans



Use

- The **Axis-Jet-CI** axial fans are designed for general purpose ventilation of underground and semiopened parking, ventilation of tunnels, smoke extraction in case of fire as a part of smoke extract system. The fans generate a high-speed and high-pressure directed air jet.
- Temperatures of the transported medium: in continuous operation up to +55 °C; in smoke extraction mode: 300 °C/2 hrs and 400 °C/2 hrs
- The fans with a fire resistance class of 200 °C/2 hours can be produced on request.

Design

- The casing of the fan is made of polymer coated steel.
- The casing includes inner brackets for motor fixation. These brackets act as directing vanes and distribute air flow uniformly, thus increasing aerodynamic performances of the fan. The fan has a sound insulation of mineral wool.

Modifications

- Unidirectional single-speed type (U)
- Unidirectional double-speed type (U)
- Reversible single-speed (R)
- Reversible double-speed (R)

Motor

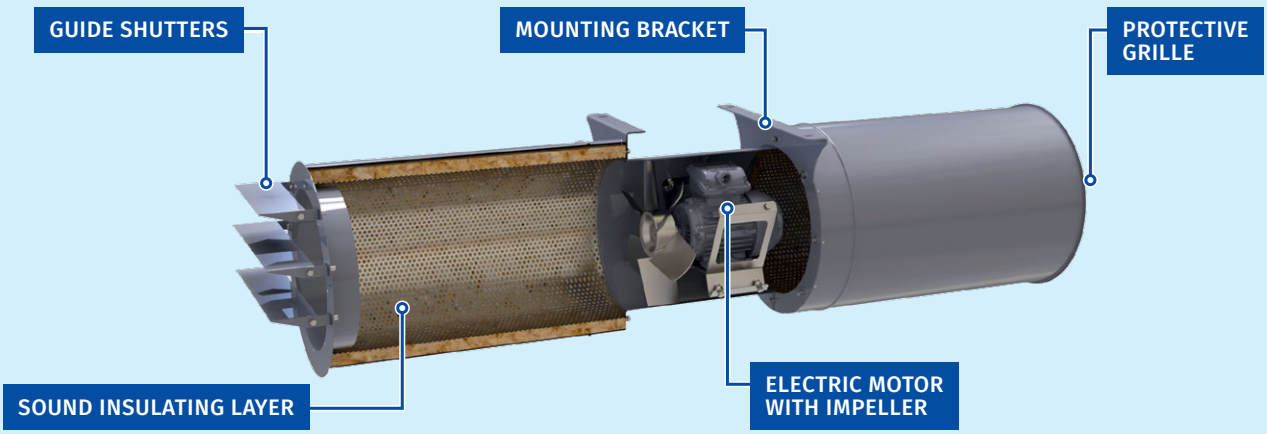
- Three-phase asynchronous short-circuit rotor motor is installed inside the fan casing. Motor ingress protection rating is IP55. The motor design ensures operation of the fan in the smoke extract systems and/or general ventilation systems in unidirectional and reversible modes. The motors are designed for 400 V mains voltage and 60 Hz mains frequency.

Impeller

- The dynamically balanced impeller is made of cast aluminium alloy (for fans of smoke extraction systems) or of glass-fiber reinforced polyamide (for fans of general industrial use).
- The reversible fans are equipped with 100 % reversible two-directional impeller.

Mounting

- The **Axis-Jet-CI** fans are designed for horizontal ceiling mounting and fixation by means of the supplied fixing brackets attached to the fan casing.

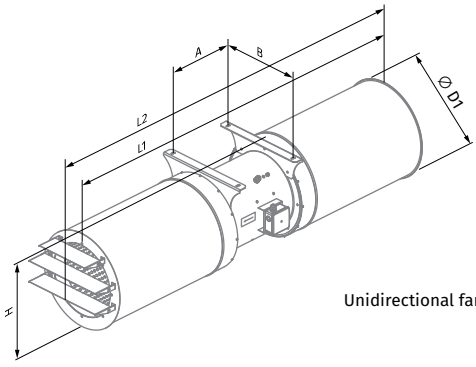


Designation key

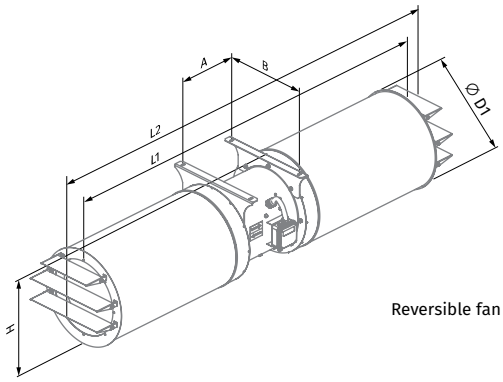
Model		Casing type	Casing insulation		Diameter [mm]	Motor		Number of poles		Air flow		Fire resistance limit/hrs		Frequency
Axis-Jet: jet axial fan	–	**C:** round	**_:** without sound-insulation **I:** sound-insulated casing	–	**315; 355; 400; 450; 500; 560; 630**	**_:** standard motor **M, S:** model with a high-power motor	–	**2** **2/4 (double-speed motors)**	–	**U:** unidirectional **R:** reversible	–	**_:** max. +55 °C **300/2:** 300 °C/2 h **400/2:** 400 °C/2 h	–	**60 Hz:** 60 Hz

Dimensions [mm]

Model	Ø D1	A	B	H	L1	L2	Weight [kg]
Unidirectional							
Axis-Jet-CI-315-U	414	302	355	425	1654	1763	40
Axis-Jet-CI-355-U	467	302	420	482	1954	2079	50
Axis-Jet-CI-400-U	515	351	460	525	2004	2129	65
Axis-Jet-CI-450-U	565	351	500	575	2004	2129	85
Axis-Jet-CI-500-U	603	371	580	620	2004	2145	110
Axis-Jet-CI-560-U	663	446	620	678	2093	2247	155
Axis-Jet-CI-630-U	733	550	710	748	2193	2357	245
Reversible							
Axis-Jet-CI-315-R	414	302	355	425	1654	1872	40
Axis-Jet-CI-355-R	467	302	420	482	1954	2202	50
Axis-Jet-CI-400-R	515	351	460	525	2004	2253	65
Axis-Jet-CI-450-R	565	351	500	575	2004	2253	85
Axis-Jet-CI-500-R	603	371	580	620	2004	2290	110
Axis-Jet-CI-560-R	663	446	620	678	2093	2400	155
Axis-Jet-CI-630-R	733	550	710	748	2193	2520	245



Unidirectional fan



Reversible fan

Technical data

∅ [mm]	Air flow direction	Number of speeds	Model	Power [kW]	Max. air flow [m³/h]	Thrust [N]	Air speed [m/s]	RPM	Operating temperature [°C]	Sound pressure LpA, dB in 3 m
315	Unidirectional	1	Axis-Jet-CI-315-2-U-60 Hz	0.55	4110	22	15.6	3460	55 °C	70.3
			Axis-Jet-CI-315-2-U-300/2-60 Hz						300 °C/2 h*	
			Axis-Jet-CI-315-2-U-400/2-60 Hz		3090	13	11.7		400 °C/2 h*	66
			Axis-Jet-CI-315M-2-U-60 Hz	0.75	4770	29	18.1		55 °C	66.1
			Axis-Jet-CI-315M-2-U-300/2-60 Hz						300 °C/2 h*	
			Axis-Jet-CI-315M-2-U-400/2-60 Hz		3500	16	13.3		400 °C/2 h*	66.3
		2	Axis-Jet-CI-315-2/4-U-60 Hz	0.55/0.11	4110/2055	22/6	15.6/7.8	3460/1730	55 °C	70.3/55.2
			Axis-Jet-CI-315-2/4-U-300/2-60 Hz						300 °C/2 h*	
			Axis-Jet-CI-315-2/4-U-400/2-60 Hz		3090/1545	13/4	11.7/5.85		400 °C/2 h*	66/50.9
			Axis-Jet-CI-315M-2/4-U-60 Hz	0.8/0.2	4770/2385	29/8	18.1/9		55 °C	66.1/51
			Axis-Jet-CI-315M-2/4-U-300/2-60 Hz						300 °C/2 h*	
			Axis-Jet-CI-315M-2/4-U-400/2-60 Hz		3500/1750	16/4	13.3/6.65		400 °C/2 h*	66.3/51.2
	Reversible	1	Axis-Jet-CI-315-2-R-60 Hz	0.55	4010	21	15.2	3460	55 °C	69.1
			Axis-Jet-CI-315-2-R-300/2-60 Hz						300 °C/2 h*	
			Axis-Jet-CI-315-2-R-400/2-60 Hz		2940	11	11.2		400 °C/2 h*	69.3
		2	Axis-Jet-CI-315-2/4-R-60 Hz	0.55/0.11	4010/2005	21/6	15.2/7.6	3460/1730	55 °C	69.1/54
			Axis-Jet-CI-315-2/4-R-300/2-60 Hz						300 °C/2 h*	
			Axis-Jet-CI-315-2/4-R-400/2-60 Hz		2940/1470	11/3	11.2/5.6		400 °C/2 h*	69.3/54.2
355	Unidirectional	1	Axis-Jet-CI-355-2-U-60 Hz	0.75	5930	35	17.6	3460	55 °C	65.3
			Axis-Jet-CI-355-2-U-300/2-60 Hz						300 °C/2 h*	
			Axis-Jet-CI-355-2-U-400/2-60 Hz		4350	19	12.9		400 °C/2 h*	66.4
			Axis-Jet-CI-355M-2-U-60 Hz	1.1	6560	43	19.5		55 °C	67.1
			Axis-Jet-CI-355M-2-U-300/2-60 Hz						300 °C/2 h*	
			Axis-Jet-CI-355M-2-U-400/2-60 Hz		5170	27	15.4		400 °C/2 h*	68
		2	Axis-Jet-CI-355-2/4-U-60 Hz	0.8/0.2	5930/2965	35/9	17.6/8.8	3460/1730	55 °C	65.3/50.2
			Axis-Jet-CI-355-2/4-U-300/2-60 Hz						300 °C/2 h*	
			Axis-Jet-CI-355-2/4-U-400/2-60 Hz		4350/2175	19/5	12.9/6.45		400 °C/2 h*	66.4/51.2
			Axis-Jet-CI-355M-2/4-U-60 Hz	1.1/0.25	6560/3280	43/11	19.5/9.75		55 °C	67.1/52.1
			Axis-Jet-CI-355M-2/4-U-300/2-60 Hz						300 °C/2 h*	
			Axis-Jet-CI-355M-2/4-U-400/2-60 Hz		5170/2585	27/7	15.4/7.7		400 °C/2 h*	68/53
	Reversible	1	Axis-Jet-CI-355-2-R-60 Hz	1.1	5550	31	16.5	3460	55 °C	71.5
			Axis-Jet-CI-355-2-R-300/2-60 Hz						300 °C/2 h*	
			Axis-Jet-CI-355-2-R-400/2-60 Hz		4170	18	12.4		400 °C/2 h*	71.8
		2	Axis-Jet-CI-355-2/4-R-60 Hz	1.1/0.25	5550/2775	31/8	16.5/8.25	3460/1730	55 °C	71.5/56.5
			Axis-Jet-CI-355-2/4-R-300/2-60 Hz						300 °C/2 h*	
			Axis-Jet-CI-355-2/4-R-400/2-60 Hz		4170/2085	18/5	12.4/6.2		400 °C/2 h*	71.8/56.8
400	Unidirectional	1	Axis-Jet-CI-400-2-U-60 Hz	1.1	7810	48	18.3	3460	55 °C	70.8
			Axis-Jet-CI-400-2-U-300/2-60 Hz						300 °C/2 h*	
			Axis-Jet-CI-400-2-U-400/2-60 Hz		7080	40	16.6		400 °C/2 h*	67.6
			Axis-Jet-CI-400M-2-U-60 Hz	2.2	9570	72	22.5		55 °C	70.9
			Axis-Jet-CI-400M-2-U-300/2-60 Hz						300 °C/2 h*	
			Axis-Jet-CI-400M-2-U-400/2-60 Hz		9320	69	21.9		400 °C/2 h*	69.5
		2	Axis-Jet-CI-400-2/4-U-60 Hz	1.1/0.25	7810/3905	48/12	18.3/9.15	3460/1730	55 °C	70.8/55.7
			Axis-Jet-CI-400-2/4-U-300/2-60 Hz						300 °C/2 h*	
			Axis-Jet-CI-400-2/4-U-400/2-60 Hz		7080/3540	40/10	16.6/8.3		400 °C/2 h*	67.6/54
			Axis-Jet-CI-400M-2/4-U-60 Hz	2.2/0.5	9570/4785	72/18	22.5/11.25		55 °C	70.9/55.9
			Axis-Jet-CI-400M-2/4-U-300/2-60 Hz						300 °C/2 h*	
			Axis-Jet-CI-400M-2/4-U-400/2-60 Hz		9320/4660	69/18	21.9/10.95		400 °C/2 h*	69.5/54.4
	Reversible	1	Axis-Jet-CI-400-2-R-60 Hz	1.5	8040	51	18.9	3460	55 °C	73.9
			Axis-Jet-CI-400-2-R-300/2-60 Hz						300 °C/2 h*	
			Axis-Jet-CI-400-2-R-400/2-60 Hz		7040	39	16.5		400 °C/2 h*	71.7
		2	Axis-Jet-CI-400-2/4-R-60 Hz	1.5/0.37	8040/4020	51/13	18.9/9.45	3460/1730	55 °C	73.9/58.9
			Axis-Jet-CI-400-2/4-R-300/2-60 Hz						300 °C/2 h*	
			Axis-Jet-CI-400-2/4-R-400/2-60 Hz		7040/3520	39/10	16.5/8.25		400 °C/2 h*	71.7/56.1

*Smoke extraction mode: once for two hours

∅ [mm]	Air flow direction	Number of speeds	Model	Power [kW]	Max. air flow [m³/h]	Thrust [N]	Air speed [m/s]	RPM	Operating temperature [°C]	Sound pressure LpA, dB in 3 m
450	Unidirectional	1	Axis-Jet-CI-450-2-U-60 Hz	1.5	10500	69	19.5	3460	55 °C	72.1
			Axis-Jet-CI-450-2-U-300/2-60 Hz						300 °C/2 h*	
			Axis-Jet-CI-450-2-U-450/2-60 Hz		9860	61	18.3		400 °C/2 h*	70.6
			Axis-Jet-CI-450M-2-U-60 Hz	2.2	12500	97	23.2		55 °C	71.2
			Axis-Jet-CI-450M-2-U-300/2-60 Hz						300 °C/2 h*	
			Axis-Jet-CI-450M-2-U-400/2-60 Hz		11400	81	21.1		400 °C/2 h*	71.1
			Axis-Jet-CI-450S-2-U-60 Hz	3	13300	110	24.6		55 °C	74.3
			Axis-Jet-CI-450S-2-U-300/2-60 Hz						300 °C/2 h*	
			Axis-Jet-CI-450S-2-U-400/2-60 Hz		12800	101	23.6		400 °C/2 h*	72.2
		2	Axis-Jet-CI-450-2/4-U-60 Hz	1.5/0.37	10500/5250	69/18	19.5/9.75	3460/1730	55 °C	72.1/57
			Axis-Jet-CI-450-2/4-U-300/2-60 Hz						300 °C/2 h*	
			Axis-Jet-CI-450-2/4-U-400/2-60 Hz		9860/4930	61/16	18.3/9.15		400 °C/2 h*	70.6/55.5
			Axis-Jet-CI-450M-2/4-U-60 Hz	2.2/0.5	12500/6250	97/25	23.2/11.6		55 °C	71.2/56.2
			Axis-Jet-CI-450M-2/4-U-300/2-60 Hz						300 °C/2 h*	
			Axis-Jet-CI-450M-2/4-U-400/2-60 Hz		11400/5700	81/21	21.1/10.55		400 °C/2 h*	71.1/56
			Axis-Jet-CI-450S-2/4-U-60 Hz	3.1/0.8	13300/6650	110/28	24.6/12.3		55 °C	74.3/59.2
			Axis-Jet-CI-450S-2/4-U-300/2-60 Hz						300 °C/2 h*	
			Axis-Jet-CI-450S-2/4-U-400/2-60 Hz		12800/6400	101/26	23.6/11.8		400 °C/2 h*	72.2/57.2
	Reversible	1	Axis-Jet-CI-450-2-R-60 Hz	1.5	9110	52	16.9	3460	55 °C	79.8
			Axis-Jet-CI-450-2-R-300/2-60 Hz						300 °C/2 h*	
			Axis-Jet-CI-450-2-R-450/2-60 Hz		8720	47	16.1		400 °C/2 h*	74.4
			Axis-Jet-CI-450M-2-R-60 Hz	2.2	11100	77	20.6		55 °C	77.3
			Axis-Jet-CI-450M-2-R-300/2-60 Hz						300 °C/2 h*	
			Axis-Jet-CI-450M-2-R-400/2-60 Hz		10300	66	19.0		400 °C/2 h*	74.7
			Axis-Jet-CI-450S-2-R-60 Hz	3	12500	97	23.1		55 °C	75.9
			Axis-Jet-CI-450S-2-R-300/2-60 Hz						300 °C/2 h*	
			Axis-Jet-CI-450S-2-R-400/2-60 Hz		11300	79	20.9		400 °C/2 h*	76
		2	Axis-Jet-CI-450-2/4-R-60 Hz	1.5/0.37	9110/4555	52/13	16.9/8.45	3460/1730	55 °C	79.8/64.7
			Axis-Jet-CI-450-2/4-R-300/2-60 Hz						300 °C/2 h*	
			Axis-Jet-CI-450-2/4-R-400/2-60 Hz		8720/4360	47/12	16.1/8		400 °C/2 h*	74.4/59.4
			Axis-Jet-CI-450M-2/4-R-60 Hz	2.2/0.5	11100/5550	77/20	20.6/10.3		55 °C	77.3/62.3
			Axis-Jet-CI-450M-2/4-R-300/2-60 Hz						300 °C/2 h*	
			Axis-Jet-CI-450M-2/4-R-400/2-60 Hz		10300/5150	66/17	19/9.5		400 °C/2 h*	74.7/59.6
			Axis-Jet-CI-450S-2/4-R-60 Hz	3.1/0.8	12500/6250	97/25	23.1/11.55		55 °C	75.9/60.9
			Axis-Jet-CI-450S-2/4-R-300/2-60 Hz						300 °C/2 h*	
			Axis-Jet-CI-450S-2/4-R-400/2-60 Hz		11300/5650	79/20	20.9/10.45		400 °C/2 h*	76/61
500	Unidirectional	2	Axis-Jet-CI-500-2/4-U-60 Hz	3.1/0.8	14100/7030	100/25	21.1/10.5	3460/1730	55 °C	78.2/63.1
			Axis-Jet-CI-500-2/4-U-300/2-60 Hz		13700/6850	94/24	20.5/10.2		300 °C/2 h*	72.5/57.4
			Axis-Jet-CI-500-2/4-U-400/2-60 Hz						400 °C/2 h*	
			Axis-Jet-CI-500M-2/4-U-60 Hz	4.4/1.1	17300/8630	149/38	25.8/12.9		55 °C	76.8/61.8
			Axis-Jet-CI-500M-2/4-U-300/2-60 Hz		16000/8000	128/32	23.9/11.9		300 °C/2 h*	72.9/57.8
			Axis-Jet-CI-500M-2/4-U-400/2-60 Hz						400 °C/2 h*	
	Reversible		Axis-Jet-CI-500-2/4-R-60 Hz	3.1/0.8	14900/7460	111/28	22.3/11.2		55 °C	77/61.9
			Axis-Jet-CI-500-2/4-R-300/2-60 Hz		13400/6700	90/23	20.1/10		300 °C/2 h*	75.9/60.8
			Axis-Jet-CI-500-2/4-R-400/2-60 Hz						400 °C/2 h*	
			Axis-Jet-CI-500M-2/4-R-60 Hz	4.4/1.1	16400/8160	134/34	24.5/12.3		55 °C	78.6/63.5
			Axis-Jet-CI-500M-2/4-R-300/2-60 Hz		15000/7500	113/28	22.5/11.2		300 °C/2 h*	76.9/61.8
			Axis-Jet-CI-500M-2/4-R-400/2-60 Hz						400 °C/2 h*	
560	Unidirectional	2	Axis-Jet-CI-560-2/4-U-60 Hz	4.4/1.1	19600/9790	157/40	23.9 /12	3460/1730	55 °C	76.8/61.8
			Axis-Jet-CI-560-2/4-U-300/2-60 Hz		17600/8800	127/32	21.5/10.7		300 °C/2 h*	75/59.9
			Axis-Jet-CI-560-2/4-U-400/2-60 Hz						400 °C/2 h*	
			Axis-Jet-CI-560M-2/4-U-60 Hz	8/2	24500/12300	245/62	30/15	3530/1765	55 °C	78.4/63.4
			Axis-Jet-CI-560M-2/4-U-300/2-60 Hz		23300/11650	222/56	28.5/14.2		300 °C/2 h*	76.7/61.6
			Axis-Jet-CI-560M-2/4-U-400/2-60 Hz						400 °C/2 h*	
	Reversible		Axis-Jet-CI-560-2/4-R-60 Hz	4.4/1.1	18100/9030	134/34	22.1/11	3460/1730	55 °C	82.4/67.3
			Axis-Jet-CI-560-2/4-R-300/2-60 Hz		17200/8600	121/31	21.1/10.5		300 °C/2 h*	78.3/63.3
			Axis-Jet-CI-560-2/4-R-400/2-60 Hz						400 °C/2 h*	
			Axis-Jet-CI-560M-2/4-R-60 Hz	6/1.5	20600/10300	174/44	25.2/12.6	3530/1765	55 °C	81.4/66.4
			Axis-Jet-CI-560M-2/4-R-300/2-60 Hz		18500/9250	140/35	22.7/11.3		300 °C/2 h*	81.1/66.1
			Axis-Jet-CI-560M-2/4-R-400/2-60 Hz						400 °C/2 h*	

*Smoke extraction mode: once for two hours

∅ [mm]	Air flow direction	Number of speeds	Model	Power [kW]	Max. air flow [m³/h]	Thrust [N]	Air speed [m/s]	RPM	Operating temperature [°C]	Sound pressure LpA, dB in 3 m
630	Unidirectional	2	Axis-Jet-CI-630-2/4-U-60 Hz	12/3	31700/15800	324/81	30.6/15.3	3530/1765	55 °C	83.2/68.2
			Axis-Jet-CI-630-2/4-U-300/2-60 Hz		30600/15300	301/75	29.5/14.7		300 °C/2 h*	81.6/66.6
			Axis-Jet-CI-630-2/4-U-400/2-60 Hz						400 °C/2 h*	
			Axis-Jet-CI-630M-2/4-U-60 Hz	16/4	36500/18200	429/107	35.2/17.6		55 °C	82.7/67.6
			Axis-Jet-CI-630M-2/4-U-300/2-60 Hz		35000/17500	395/99	33.8/16.9		300 °C/2 h*	81.1/66
			Axis-Jet-CI-630M-2/4-U-400/2-60 Hz						400 °C/2 h*	
	Reversible		Axis-Jet-CI-630-2/4-R-60 Hz	12/3	30600/15300	302/76	29.6/14.8		55 °C	85.7/70.6
			Axis-Jet-CI-630-2/4-R-300/2-60 Hz		29400/14700	279/70	28.4/14.2		300 °C/2 h*	84.1/69
			Axis-Jet-CI-630-2/4-R-400/2-60 Hz						400 °C/2 h*	
			Axis-Jet-CI-630M-2/4-R-60 Hz	16/4	32400/16200	339/85	31.3/15.7		55 °C	86.4/71.4
			Axis-Jet-CI-630M-2/4-R-300/2-60 Hz		30800/15400	305/76	29.7/14.8		300 °C/2 h*	85.7/70.6
			Axis-Jet-CI-630M-2/4-R-400/2-60 Hz						400 °C/2 h*	

*Smoke extraction mode: once for two hours