THT/ROOF

400 ºC/2h and 300 ºC/2h roof-mounted axial extractor fans with vertical air outlet

Roof-mounted axial extractor fans with vertical air outlet, for work in fire risk zones, designed for smoke extraction in industrial or similar buildings.

Fan:
- Galvanised sheet steel support base with anti-corrosive treatment.
- Cast aluminium orientable rotors.
- Anti-contact protective grille pursuant to standard UNE-EN ISO 12499.
- Anti-return hatch in aluminium sheet metal to prevent the entry of water when the fan is not operating.
- Approved in accordance with standard EN 12101-3. With 0370-CPR-0305 (F400) and 0370-CPR-0973 (F300) certifications.
- Airflow direction from Motor to Impeller.

Motor:
- Class H motors for S1 continuous operation and S2 emergency use. With ball bearings and class IP55 protection.
- Multi voltage motor, special design valid for 220/380V 60Hz, 254/440V 60Hz, 265/460V 60Hz, 277/480V 60Hz
- Maximum temperature of air to be carried: S1 continuous operation -20 ºC +40 ºC. S2 operation, 300 ºC/2h, 400 ºC/2h.

Finish:
- Anti-corrosive finish of polyester resin polymerised at 190 ºC, previously degreased with phosphate-free nanotechnological treatment.

On request:
- Extractor fans with 2-speed motors.
- 2 and 8-pole fans depending on diameter.

Order code

From size 40 to size 100

THT/ROOF — 56 — 4T — 2 — F400 — 60Hz

- ***THT/ROOF***: THT/ROOF: 400 ºC/2h and 300 ºC/2h roof-mounted axial extractor fans with vertical air outlet
- ***56***: Rotor diameter in cm
- ***4T***: Number of motor poles T: Three-phase
- ***2***: Motor power (c.v.)
- ***F400***: F-300: Approval. Tested for 300 ºC/2h. F-400: 400 ºC/2h approved
- ***60Hz***

Size 120

THT/ROOF — 125 — 4T/9 — 24 — F400 — 60Hz

- ***THT/ROOF***: THT/ROOF: Extremely robust, roof-mounted axial extractor fans with vertical air outlet
- ***125***: Rotor diameter in cm
- ***4T/9***: Number of motor poles T: Three-phase; Number of blades 3 blades, 6 blades, 9 blades
- ***24***: Motor power (c.v.)
- ***F400***: F-300: Approval. Tested for 300 ºC/2h. F-400: 400 ºC/2h approved
- ***60Hz***

Technical characteristics

60Hz

Model	Speed	Maximum admissible current (A)		Installed power	Angle inclination blades	Maximum flow rate	Sound pressure level dB(A)(1)		Approx. weight
	(r/min)	220-277V	380-480V	(W)	(º)	(m3/h)	Intake	Discharge	(kg)
THT/ROOF-40-4T-0.75	1704	2.90	1.70	0.55	32	4800	53.55	48.3	39
THT/ROOF-40-6T-0.75	1116	3.30	1.90	0.55	32	3150	42	37.8	44
THT/ROOF-45-4T-0.75	1704	2.90	1.70	0.55	36	7450	57.75	52.5	42
THT/ROOF-45-6T-0.75	1116	3.30	1.90	0.55	30	4450	44.1	39.9	47
THT/ROOF-50-4T-1	1716	3.80	2.20	0.75	28	9750	61.95	56.7	51
THT/ROOF-50-6T-0.75	1116	3.30	1.90	0.55	32	7000	49.35	45.15	54
THT/ROOF-56-4T-1	1716	3.80	2.20	0.75	22	11250	66.15	60.9	58
THT/ROOF-56-4T-1.5	1704	4.70	2.70	1.10	30	13600	67.2	61.95	58
THT/ROOF-56-4T-2	1710	6.60	3.80	1.50	36	15050	68.25	63	61
THT/ROOF-56-6T-0.75	1116	3.30	1.90	0.55	38	10150	54.6	50.4	57
THT/ROOF-63-4T-1.5	1704	4.70	2.70	1.10	20	17800	66.15	61.95	67
THT/ROOF-63-4T-2	1710	6.60	3.80	1.50	24	19300	66.15	61.95	71
THT/ROOF-63-4T-3	1722	9.20	5.30	2.20	32	22150	68.25	64.05	76
THT/ROOF-63-4T-4	1716	11.40	6.60	3.00	38	24250	69.3	65.1	85
THT/ROOF-63-6T-0.75	1116	3.30	1.90	0.55	28	13600	57.75	53.55	67

Technical characteristics

Model	Speed	Maximum admissible current (A)		Installed power	Angle inclination blades	Maximum flow rate	Sound pressure level dB(A)(1)		Approx. weight
	(r/min)	220-277V	380-480V	(W)	(º)	(m3/h)	Intake	Discharge	(kg)
THT/ROOF-63-6T-1	1128	4.40	2.60	0.75	38	15900	59.85	55.65	70
THT/ROOF-71-4T-2	1710	6.60	3.80	1.50	14	20900	71.4	67.2	78
THT/ROOF-71-4T-3	1722	9.20	5.30	2.20	22	25100	70.35	66.15	83
THT/ROOF-71-4T-4	1716	11.40	6.60	3.00	28	27500	71.4	67.2	92
THT/ROOF-71-6T-0.75	1116	3.30	1.90	0.55	20	16100	58.8	55.65	74
THT/ROOF-71-6T-1	1128	4.40	2.60	0.75	26	17300	59.85	55.65	77
THT/ROOF-71-6T-1.5	1134	6.40	3.70	1.10	34	19950	60.9	56.7	83
THT/ROOF-80-4T-4	1716	11.40	6.60	3.00	16	30250	74.55	70.35	114
THT/ROOF-80-4T-5.5	1728		8.40	4.00	18	32750	74.55	70.35	121
THT/ROOF-80-6T-1.5	1134	6.40	3.70	1.10	18	21450	64.05	59.85	105
THT/ROOF-80-6T-2	1134	7.40	4.30	1.50	26	25950	65.1	60.9	114
THT/ROOF-80-6T-3	1140	10.30	5.90	2.20	32	29950	66.15	61.95	120
THT/ROOF-90-4T-5.5	1728		8.40	4.00	12	38900	78.75	74.55	134
THT/ROOF-90-4T-7.5	1716		11.50	5.50	18	46150	77.7	73.5	161
THT/ROOF-90-4T-10	1752		17.70	7.50	22	50150	76.65	72.45	172
THT/ROOF-90-6T-2	1134	7.40	4.30	1.50	16	28800	67.2	63	127
THT/ROOF-90-6T-3	1140	10.30	5.90	2.20	24	34000	68.25	63	134
THT/ROOF-90-6T-4	1134	15.00	8.70	3.00	30	38900	69.3	65.1	159
THT/ROOF-100-4T-7.5	1716		11.50	5.50	10	46850	82.95	78.75	172
THT/ROOF-100-4T-10	1752		17.70	7.50	16	57400	80.85	76.65	183
THT/ROOF-100-4T-15	1746		23.00	11.00	22	66300	79.8	75.6	236
THT/ROOF-100-4T-20	1752		29.00	15.00	28	76150	81.9	77.7	251
THT/ROOF-100-6T-3	1140	10.30	5.90	2.20	16	37600	70.35	67.2	146
THT/ROOF-100-6T-4	1134	15.00	8.70	3.00	20	41150	70.35	65.1	171
THT/ROOF-100-6T-5.5	1164		11.00	4.00	26	47800	71.4	67.2	183
THT/ROOF-125-4T/3-25	1758		37.00	18.50	20	98350	85.05	79.8	404
THT/ROOF-125-4T/3-30	1764		42.00	22.00	24	110350	86.1	80.85	418
THT/ROOF-125-4T/3-40	1770		58.00	30.00	30	125000	87.15	81.9	499
THT/ROOF-125-4T/6-25	1758		37.00	18.50	14	92550	84	78.75	413
THT/ROOF-125-4T/6-30	1764		42.00	22.00	16	98850	84	78.75	427
THT/ROOF-125-4T/6-40	1770		58.00	30.00	22	117450	86.1	80.85	507
THT/ROOF-125-4T/6-50	1776		73.00	37.00	26	131050	87.15	81.9	543
THT/ROOF-125-4T/9-25	1758		37.00	18.50	10	79650	81.9	76.65	422
THT/ROOF-125-4T/9-30	1764		42.00	22.00	12	88300	82.95	77.7	436
THT/ROOF-125-4T/9-40	1770		58.00	30.00	16	104050	85.05	79.8	516
THT/ROOF-125-4T/9-50	1776		73.00	37.00	20	118400	87.15	81.9	552
THT/ROOF-125-6T/3-4	1134	15.00	8.70	3.00	12	46750	73.5	68.25	267
THT/ROOF-125-6T/3-5.5	1164		11.00	4.00	16	55400	73.5	69.3	279
THT/ROOF-125-6T/3-7.5	1164		14.00	5.50	22	68400	74.55	70.35	286
THT/ROOF-125-6T/3-10	1152		18.60	7.50	28	79150	76.65	72.45	316
THT/ROOF-125-6T/3-15	1146		26.00	11.00	34	87150	77.7	73.5	346
THT/ROOF-125-6T/3-20	1140		35.50	15.00	38	91650	78.75	74.55	404
THT/ROOF-125-6T/6-5.5	1164		11.00	4.00	10	51500	69.3	65.1	288
THT/ROOF-125-6T/6-7.5	1164		14.00	5.50	14	60650	69.3	65.1	295
THT/ROOF-125-6T/6-10	1152		18.60	7.50	20	72650	71.4	67.2	325
THT/ROOF-125-6T/6-15	1146		26.00	11.00	26	85850	73.5	69.3	355
THT/ROOF-125-6T/6-20	1140		35.50	15.00	30	92850	74.55	70.35	413
THT/ROOF-125-6T/9-10	1152		18.60	7.50	14	63500	71.4	67.2	334
THT/ROOF-125-6T/9-15	1146		26.00	11.00	20	77550	74.55	70.35	364
THT/ROOF-125-6T/9-20	1140		35.50	15.00	26	92950	77.7	73.5	422

(1) The noise level values are pressures in dB(A) measured at a distance of 6 metres in a free field.

Acoustic characteristics

Sound power spectrum Lw(A) in dB(A) per Hz frequency band

Values taken during intake with maximum flow rate

Model	63	125	250	500	1000	2000	4000	8000
40-4-0.75	36	57	64	69	72	68	61	50
40-6-0.75	25	46	53	58	61	57	50	39
45-4-0.75	40	61	68	73	76	72	65	54
45-6-0,75	27	48	55	60	63	59	52	41
50-4-1	44	64	72	77	79	76	69	58
50-6-0,75	32	52	60	65	67	64	57	46
56-4-1	48	68	76	81	83	80	73	62
56-4-1.5	49	69	77	82	84	81	74	63
56-4-2	50	70	78	83	85	82	75	64
56-6-0,75	37	57	65	70	72	69	62	51
63-4-1.5	48	68	76	81	83	80	73	65
63-4-2	52	68	76	81	83	80	73	66
63-4-3	53	70	78	83	85	82	77	67
63-4-4	54	71	79	84	86	83	78	68
63-6-0,75	42	60	68	73	75	72	65	56

Values taken during discharge with maximum flow rate

Model	63	125	250	500	1000	2000	4000	8000
40-4-0,75	31	52	59	64	67	63	56	45
40-6-0,75	21	42	49	54	57	53	46	35
45-4-0,75	35	56	63	68	71	67	60	49
45-6-0,75	23	44	51	56	59	55	48	37
50-4-1	39	59	67	72	74	71	64	53
50-6-0,75	28	48	56	61	63	60	53	42
56-4-1	43	63	71	76	78	75	68	57
56-4-1.5	44	64	72	77	79	76	69	58
56-4-2	45	65	73	78	80	77	70	59
56-6-0,75	33	53	61	66	68	65	58	47
63-4-1.5	44	64	72	77	79	76	69	60
63-4-2	47	64	72	77	79	76	69	61
63-4-3	48	66	74	79	81	78	73	62
63-4-4	49	67	75	80	82	79	74	63
63-6-0,75	38	56	64	69	71	68	61	52

Acoustic characteristics

Sound power spectrum Lw(A) in dB(A) per Hz frequency band

Values taken during intake with maximum flow rate

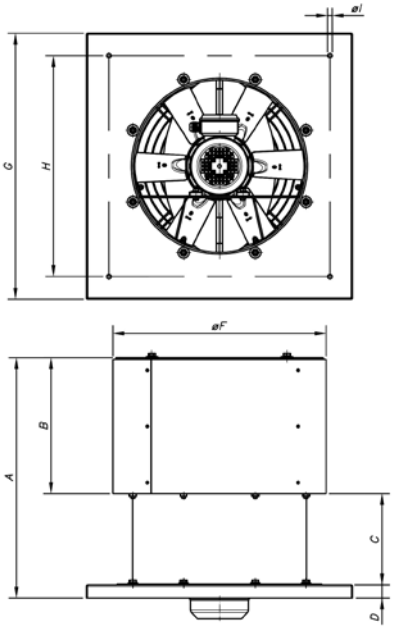
Model	63	125	250	500	1000	2000	4000	8000
63-6-1	43	62	70	75	77	74	67	57
71-4-2	53	73	81	86	88	85	78	70
71-4-3	58	72	80	85	87	84	77	71
71-4-4	59	73	81	86	88	85	78	72
71-6-0,75	44	63	72	74	76	73	66	55
71-6-1	45	65	73	75	77	74	67	56
71-6-1.5	46	66	71	76	78	75	68	57
80-4-4	56	76	84	89	91	88	81	74
80-4-5.5	56	76	84	89	91	88	81	74
80-6-1.5	49	66	74	79	81	78	71	60
80-6-2	50	67	75	80	82	79	72	61
80-6-3	51	68	76	81	83	80	73	62
90-4-5.5	60	81	88	93	96	92	85	74
90-4-7.5	59	80	87	92	95	91	84	73
90-4-10	58	79	86	91	94	90	83	72
90-6-2	49	70	77	82	85	81	74	63
90-6-3	56	70	77	82	85	81	74	63
90-6-4	57	72	79	84	87	83	76	65
100-4-7.5	64	84	92	97	99	96	89	78
100-4-10	62	82	90	95	97	94	87	76
100-4-15	61	81	89	94	96	93	86	75
100-4-20	63	83	91	96	98	95	88	77
100-6-3	61	72	80	85	87	84	77	66
100-6-4	64	72	80	85	87	84	77	66
100-6-5.5	64	73	81	86	88	85	78	67
125-4/3-25	73	79	91	101	101	97	89	85
125-4/3-30	74	80	92	102	102	98	90	86
125-4/3-40	75	81	93	103	103	99	91	87
125-4/6-25	68	76	92	99	101	96	90	86
125-4/6-30	68	76	92	99	101	96	90	86
125-4/6-40	70	78	94	101	103	98	92	88
125-4/6-50	71	79	95	102	104	99	93	89
125-4/9-25	66	74	91	97	98	93	88	84
125-4/9-30	67	75	92	98	99	94	89	85
125-4/9-40	69	77	94	100	101	96	91	87
125-4/9-50	71	79	96	102	103	98	93	89
125-6/3-4	66	74	86	90	88	83	74	70
125-6/3-5.5	66	74	86	90	88	83	74	70
125-6/3-7.5	67	75	87	91	89	84	75	71
125-6/3-10	69	77	89	93	91	86	77	73
125-6/3-15	70	78	90	94	92	87	78	74
125-6/3-20	71	79	91	95	93	88	79	75
125-6/6-5.5	60	69	82	85	86	83	72	68
125-6/6-7.5	60	69	82	85	86	83	72	68
125-6/6-10	62	71	84	87	88	85	74	70
125-6/6-15	64	73	86	89	90	87	76	72
125-6/6-20	65	74	87	90	91	88	77	73
125-6/9-10	58	68	83	87	86	85	74	70
125-6/9-15	61	71	86	90	89	88	77	73
125-6/9-20	64	74	89	93	92	91	80	76

Values taken during discharge with maximum flow rate

Model	63	125	250	500	1000	2000	4000	8000
63-6-1	39	58	66	71	73	70	63	53
71-4-2	49	69	77	82	84	81	74	65
71-4-3	53	68	76	81	83	80	73	67
71-4-4	54	69	77	82	84	81	74	68
71-6-0,75	40	60	68	71	73	70	63	52
71-6-1	41	61	69	71	73	70	63	52
71-6-1.5	42	62	67	72	74	71	64	53
80-4-4	52	72	80	85	87	84	77	69
80-4-5.5	52	72	80	85	87	84	77	70
80-6-1.5	45	62	70	75	77	74	67	56
80-6-2	46	63	71	76	78	75	68	57
80-6-3	47	64	72	77	79	76	69	58
90-4-5.5	56	77	84	89	92	88	81	70
90-4-7.5	55	76	83	88	91	87	80	69
90-4-10	54	75	82	87	90	86	79	68
90-6-2	45	66	73	78	81	77	70	59
90-6-3	52	66	73	78	81	77	70	59
90-6-4	53	68	75	80	83	79	72	61
100-4-7.5	60	80	88	93	95	92	85	74
100-4-10	58	78	86	91	93	90	83	72
100-4-15	57	77	85	90	92	89	82	71
100-4-20	59	79	87	92	94	91	84	73
100-6-3	58	69	77	82	84	81	74	63
100-6-4	59	67	75	80	82	79	72	61
100-6-5.5	60	69	77	82	84	81	74	63
125-4/3-25	68	74	86	96	96	92	84	80
125-4/3-30	69	75	87	97	97	93	85	81
125-4/3-40	70	76	88	98	98	94	86	82
125-4/6-25	63	71	87	94	96	91	85	81
125-4/6-30	63	71	87	94	96	91	85	81
125-4/6-40	65	73	89	96	98	93	87	83
125-4/6-50	66	74	90	97	99	94	88	84
125-4/9-25	61	69	86	92	93	88	83	79
125-4/9-30	62	70	87	93	94	89	84	80
125-4/9-40	64	72	89	95	96	91	86	82
125-4/9-50	66	74	91	97	98	93	88	84
125-6/3-4	61	69	81	85	83	78	69	65
125-6/3-5.5	62	70	82	86	84	79	70	66
125-6/3-7.5	63	71	83	87	85	80	71	67
125-6/3-10	65	73	85	89	87	82	73	69
125-6/3-15	66	74	86	90	88	83	74	70
125-6/3-20	67	75	87	91	89	84	75	71
125-6/6-5.5	56	65	78	81	82	79	68	64
125-6/6-7.5	56	65	78	81	82	79	68	64
125-6/6-10	58	67	80	83	84	81	70	66
125-6/6-15	60	69	82	85	86	83	72	68
125-6/6-20	61	70	83	86	87	84	73	69
125-6/9-10	54	64	79	83	82	81	70	66
125-6/9-15	57	67	82	86	85	84	73	69
125-6/9-20	60	70	85	89	88	87	76	72

Dimensions mm

Model	A	B	C	D	ØF	G	H	ØI
THT/ROOF-40	628	349	244	35	519	630	530	12
THT/ROOF-45	642	363	244	35	569	710	590	12
THT/ROOF-50	679	400	244	35	626	900	750	12
THT/ROOF-56	710	426	244	40	686	900	750	14
THT/ROOF-63	747	463	244	40	753	1000	850	14
THT/ROOF-71	830	498	292	40	833	1000	850	14
THT/ROOF-80	887	545	292	50	923	1150	1000	14
THT/ROOF-90	989	601	338	50	1031	1150	1000	14
THT/ROOF-100	1136	648	438	50	1128	1250	1100	14
THT/ROOF-125	1313	775	488	50	1376	1425	1275	17



Characteristic curves

See HTMV series

Accessories

INT IAT CABLE BOX C2V AET CENTRAL CO VSD RT