



Company for production, mounting and engineering Subotica

TEHNOSERV



**Modular Air Ventilation Units
Type ATL**



Quality as a guarantee for successful business



Modular Air Ventilation Devices Type ATL

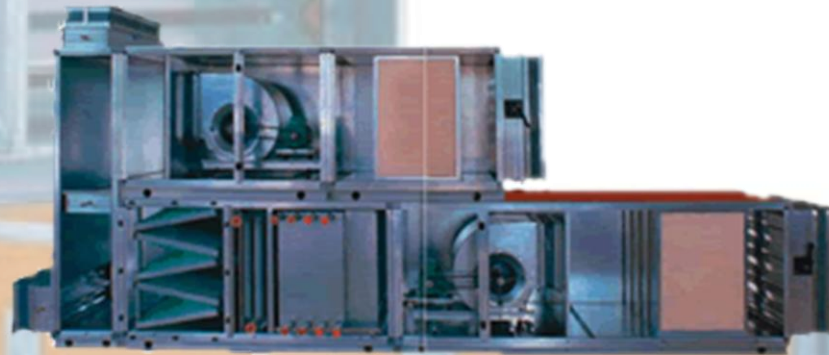
The ATL central air handling devices manufactured by TEHNOSERV have been designed to meet the highest technical standards and offer a range of equipment sizes and modules that reflects careful consideration based on many years of professional experience. Accordingly, our central air handling units are suitable for widest range of ventilation heating and air conditioning applications as well as for many other technological uses.

We are offering modular air handling devices for any air flow from 1.000 m³/h to 10.000 m³/h in 18 standard sizes. If necessary we are able to design and manufacture custom sizes.

Our equipments are ideal for air handling application in:

- Department stores and shopping centers
- Museums and theaters
- Industrial buildings
- Covered markets
- Airports
- Hotels and catering facilities
- Buildings of banks and insurance companies
- Swimming pool, and
- Hospitals

Occasionally, we also undertake custom design and implementation assignments based parameters provided by the customer.



Initially the air handling device may be selected from the range of modules described in this brochure on the basis of the air flow value required. This helps specify the main dimensions of the machine. For more accurate final selection, we use software application.

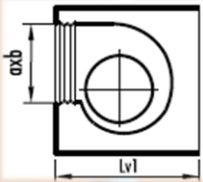
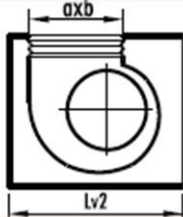
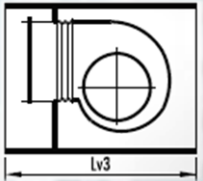
The final selection is performed by our engineers which are relying on the air technology parameters received from the customer and software application.

A technical line drawing of a container unit, likely a mobile office or storage unit. The unit is shown from a three-quarter perspective with its front door open. The interior features several compartments, including a large open space and smaller locked sections. A locking mechanism is visible on the door edge. The unit is mounted on a base with a chain-link fence in the foreground.



* Air Velocity (m/sec)

Fan Section

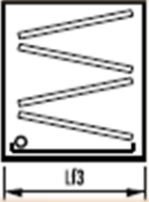
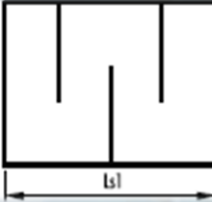
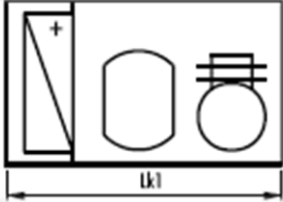
Section type	Fan sections			
Drawing				
Code	V1	V2	V3	V4

Section lengths for fan elements (mm)

Size	a (max)	b(max)	Lv1(max)	Lv2 (max)	Lv3 (max)	Lv4(max)
01	205	205	715	690	965	690
02	205	205	715	690	965	690
04	288	288	1070	1040	1320	980
05	322	322	1080	1060	1330	1070
06	361	361	1100	1090	1350	1070
08	453	453	1430	1450	1680	1430
11	507	507	1500	1450	1750	1430
12	507	507	1500	1450	1750	1430
16	638	638	1740	1750	1990	1730
20	715	715	1900	1890	2150	1880
25	801	801	1990	2040	2240	2030
26	801	801	1990	2040	2240	2030
35	1007	1007	2230	2340	2480	2330
40	1007	1007	2230	2340	2480	2330
50	1007	1007	2230	2340	2480	2330
55	1267	1267	2780	2900	3030	2890
65	1267	1267	2780	2900	3030	2890
90	1250	1580	3209	3910	3420	3750

- V1: Fan with housing positioned at 90
V2: Fan housing positioned at 0
V3: Fan housing positioned at 90 ,
inserted between two other modules
V4: Fan with housing positioned at 180

Filters and Other Sections

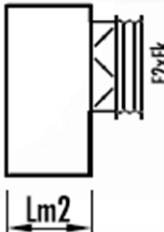
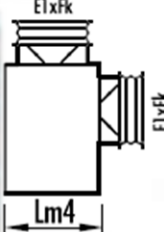
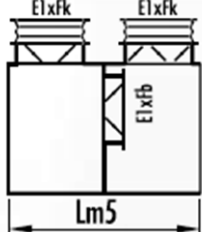
Section type	Filter sections			Other sections			
Drawing							
Code	F1	F2	F3	N1	S1	K1	E1

Section lengths for filter and other elements (mm)

	Lf1	Lf2			Lf3	Ln1	Ls1		Lk1	Le1
Size	Quality rating G3-G4	Quality rating G3-G4	Quality rating F5	Quality rating F7-F9	Quality rating G3-G4		Coulisse 600 mm	Coulisse 1200 mm	Non standard sizes	
01	180	460	640	710	740	650	1150	1675		200-1400
02	180	460	640	710	740	650	1150	1675		200-1400
04	180	460	640	710	740	650	1150	1675		200-1400
05	180	460	640	710	740	650	1150	1675		200-1400
06	180	460	640	710	740	900	1150	1675		200-1400
08	180	460	640	710	740	900	1150	1675		200-1400
11	180	460	640	710	740	900	1150	1675		200-1400
12	180	460	640	710	740	1150	1150	1675		200-1400
16	180	460	640	710	740	1150	1150	1675		200-1400
20	180	460	640	710	740	1150	1150	1675		200-1400
25	180	460	640	710	740	1150	1150	1675		200-1400
26	180	460	640	710	740	1400	1150	1675		200-1400
35	200	460	640	710	740	1400	1150	1675		200-1400
40	200	680	680	750	770	1400	1150	1675		200-1400
50	200	680	680	750	770	1675	1150	1675		200-1400
55	200	680	680	750	770	1675	1150	1675		200-1400
65	200	680	680	750	770	1900	1150	1675		200-1400
90	200	680	680	750	770	1900	1150	1675		200-1400

- F1: Flat filter, 50 mm standard sheet, width, bar guide design, G3-G4 quality
- F2: Bag filter, bar guide design, G3-F9 quality rating
- F3: V filter, bar guide design, 50mm standard sheet width, also available with grease trap
- N1: Air humidifier section, spraying with steam or compressed air
- S1: Coulisse type silencer section with 600 or 1200 mm coulisses
- K1: Compressor section for condenser and compressor
- E1: Empty section

Air Inlet and Air Mixing Sections

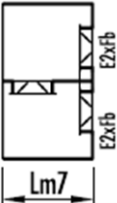
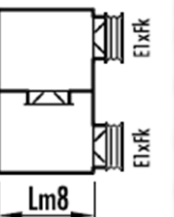
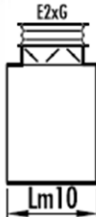
Section type	Air inlet and Air Mixing Sections				
Drawing					
Code	M1	M2	M3	M4	M5

Connection sizes for air inlet and air mixing sections (mm)

Size	E	E1	E2	Fk
01	310	310	310	649
02	310	310	310	945
04	610	310	410	649
05	810	310	510	649
06	610	310	410	945
08	810	310	510	945
11	1110	410	610	945
12	810	310	510	1405
16	1110	410	610	1405
20	1310	410	610	1405
25	1710	610	910	1405
26	1310	410	610	1905
35	1710	610610	910	1905
40	1910	610	910	1905
50	1900	610	1010	2405
55	2186	910	1110	2405
65	2186	1010	1510	2880
90	2809	1110	1910	2880

- M1: End panel with damper and/or antivibration
- M2: End section with damper and/or antivibration fitted onto an panel
- M3: End section with top connection with damper and/or antivibration
- M4: End air mixing section with damper and/or antivibration

Air Inlet and Air Mixing Sections

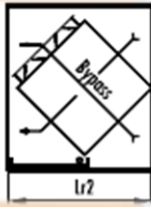
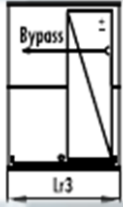
Section type	Fan sections				
Drawing					
Code	M6	M7	M8	M9	M10

Section lengths for air inlet air mixing elements (mm)

Size	G	Lm2	Lm3	Lm4	Lm5	Lm6	Lm7	Lm8	Lm10
01	310	230	340	340	800	340	525	400	340
02	310	230	340	340	800	340	525	400	340
04	610	230	440	340	800	340	525	400	440
05	810	230	540	340	800	340	525	400	540
06	610	230	440	340	800	340	525	400	440
08	810	400	540	340	800	340	525	400	540
11	1110	400	640	440	1000	440	625	500	640
12	810	400	540	340	800	340	525	400	540
16	1110	400	640	440	1000	440	625	500	640
20	1310	525	640	440	1000	440	625	500	640
25	1710	525	940	640	1400	640	825	700	940
26	1310	525	640	440	1000	440	625	500	640
35	1710	650	940	640	1400	640	825	700	940
40	1910	650	960	660	1420	660	845	720	960
50	1910	900	1060	660	1420	660	845	720	1060
55	2110	900	1160	960	2020	960	1145	1020	1160
65	2110	1150	1560	1060	2220	1060	1245	1120	1560
90	2810	1150	1960	1160	2420	1160	1345	1220	1960

- M6: Triple air mixer with damper and/or antivibration (lateral connection)
- M7: Triple air mixer for double-deck equipment with damper and/or antivibration (with internal dampers)
- M8: Triple air mixer for double-deck equipment with damper and/or antivibration (end section)
- M9: Damper antivibration for total cross section
- M10: End section with lateral connection damper and/or antivibration

Heat Exchanger Sections Sections

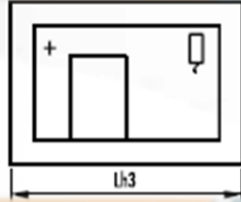
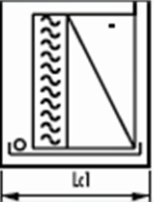
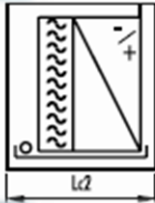
Section type	Heat exchanger sections			
Drawing				
Code	R1	R2	R3	R4

Section lengths for heat exchanger elements (mm)				
Size	Lr1	Lr2	Lr3	Lr4
01	671	757	460-530	420
02	671	757	460-530	420
04	1237	1323	460-530	480
05	1525	1611	460-530	480
06	1237	1323	460-530	480
08	1525	1611	460-530	480
11	2091	2177	460-530	480
12	1525	1611	460-530	480
16	2091	2177	460-530	480
20	2375	2461	460-530	510
25	3078	3164	460-530	660
26	2375	2461	460-530	510
35	3078	3164	460-530	510
40	3531	3617	460-530	560
50	3531	3617	460-530	750
55	3531	3617	460-530	750
65	3531	3617	460-530	750
90	3531	3617	460-530	750

- R1: Plate heat exchanger with by-pass damper
R2: Plate heat exchanger section with alternating damper
R3: Heat pipe exchanger with by-pass damper
R4: Rotary heat exchanger section

Note: All heat regeneration sections may be ordered complete with plastic droplet eliminator. If the droplet eliminator is fitted, the length of the module increases by 215 mm.

Heater and Cooler Section

Section type	Heater sections				Cooler Section	
Drawing						
Code	H1	H2	H3	H4	C1	C2

Section lengths for heater elements (mm)					Section lengths for cooler elements (mm)	
	Lh1	Lh2	Lh3	Lh4	Lc1	Lc2
Size	Warm water heater 2-3 rows	Electrical heater	Burner gas/oil	Heater of run around heat exchanger 4-6 rows	Cooler 4-6 rows	Cooler of run around heat exchanger 4-6 rows
01	246-268	270	-	362-406	662-706	662-706
02	246-268	270	-	362-406	662-706	662-706
04	224-256	270	1380	318-382	618-682	618-682
05	224-256	270	1580	318-382	618-682	618-682
06	224-256	270	1580	318-382	618-682	618-682
08	239-280	270	1780	348-430	648-730	648-730
11	256-280	270	1780	382-430	682-730	682-730
12	239-280	270	1780	348-430	648-730	648-730
16	256-317	270	2180	382-505	682-805	682-805
20	256-317	370	2180	382-505	682-805	682-805
25	280-341	370	2330	406-529	706-829	706-829
26	300-361	370	2330	426-549	726-849	726-849
35	300-361	370	2580	426-549	726-849	726-849
40	300-361	370	2600	426-549	726-849	726-849
50	380-441	370	2600	530-629	830-929	830-929
55	380-441	370	2600	530-629	830-929	830-929
65	380-441	370	2600	530-629	830-929	830-929
90	380-441	370	2600	530-629	830-929	830-929

H1: Heater with water/glycol as medium
H2: Electrical heater with helically ribbed heating inserts
H3: Burner gas/oil fire heater
H4: Run around heat exchanger section max. 8 rows, "heating" side
C1: Cooler with water/glycol/freon as medium, droplet eliminator
C1: Run around heat exchanger section max.8 rows, "cooling" side.

Note: The H1 section is also available complete with an antifreezing thermostat holder. If fitted, the length of the section increases by 180-200 mm.

Contact:

TEHNOSERV DOO

Company for production, mounting and engineering

Street: Hrastova No.5

City: Subotica

Zip code: 24000

Republic Serbia

Tel: + 381 24 554-633, 523-133, 523-033

Fax: + 381 24 554-633

Mobil: + 381 24 62 279 540

E-mail: tehnos@nadlanu.com

www.tehnoserv.com

