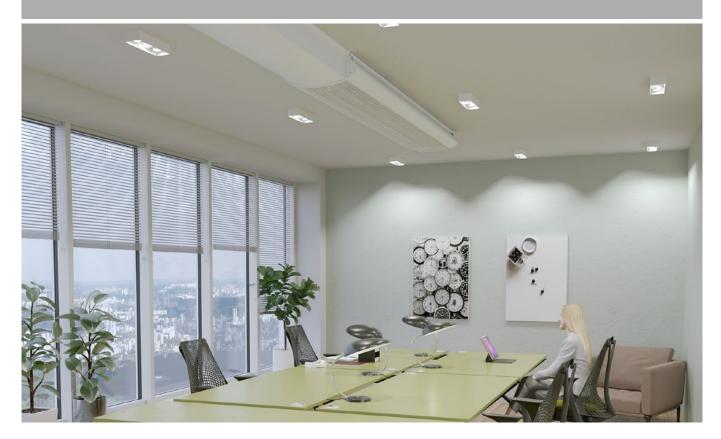
Active chilled beam/climate beam for cooling, heating and ventilation



QUICK FACTS

- ADRIATIC is a climate beam with integrated recirculated air opening in the bottom.
- O Climate beam with cooling, heating and ventilation
- Designed for suspended installation from hangers or mounted directly against the ceiling.
- Stylish design section in two versions
- Variants with high output that can cope with varying needs
- O Factory-fitted directional airflow control
- Available with water and air connections on opposite short sides
- O Adjustable k-factor for wide range of air flows
- Service-friendly with hinged design section for easy accessibility
- A connection casing is available as an option to hide ventilation ducts and water pipes
- Simple adjustment on site
- Adjustable slot control with a knob for simple adjustment on site.
- O Standard color White RAL 9003
 - 5 alternative standard colors
 - Other colors upon request

	Variant			y air	Performance		
Si	ze	Air connection	IN WG	CFM	Total cooling capacity	"Sound level	
ft.	m.	in.			[BTUH]**	[dB(A)] ***"	
4	1.2	5	0.2	30	1768	<20	
4	1.2	5	0.2	44	2034	24	
6	1.8	5	0.2	21	1840	<20	
6	1.8	5	0.2	42	2717	<20	
6	1.8	5	0.2	66	3188	25	
8	2.4	5	0.2	30	2689	<20	
8	2.4	5	0.2	64	3758	21	
8	2.4	5	0.2	93	4218	28	
10	3.0	5	0.2	36	3229	<20	
10	3.0	5	0.2	72	4430	20	
10	3.0	5	0.2	110	5007	30	

^{*}Total pressure duct (IN WG)

^{***}Including -4dB room attenuation



^{**}Air: $\Delta T_{\rm ii}$ =12.6F, Water: $\Delta T_{\rm mk}$ =15.3F, water flow=0.8 GPM for 4 ft and 6 ft, water flow=1.6 GPM for 8 ft and 10ft

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Technical description

Version

The new generation of Adriatic is a closed, active climate beam with two-way air discharge. It has variable air flow control, which makes sizing easier. The new Adriatic also delivers greater flexibility and simplicity during future refurbishments and customisations.

The increased cooling capacity enables a lower duct pressure or that a higher cooling water temperature can be used, which saves energy and also improves room comfort further.

The products are equipped with ADC air defectors and Swegon's unique slot adjustment.



Sizes:

• 4, 6, 8 and 10 feet (1.2, 1.8, 2.4 and 3.0 m)

With its high capacity, the new Adriatic can often replace another, larger product.

Versions:

- Prisma, design section with a angular shape
- Ellips, design section with a softer, rounder shape

Functions:

- Cooling and ventilation
- Cooling, heating and ventilation

Installation

The ADRIATIC is designed for suspended installation from hangers or mounting directly against the ceiling. A connection casing is also available as an accessory in cases where you want to hide ventilation ducts and water pipes.

If you want the product with water and air connections on different short sides, Variant TH is available as an option.

Material

The casing is made of pre-painted sheet metal.

The design plate on the Prisma is pre-painted sheet metal, and for the Ellips it is aluminium and sheet metal.

The coil is made of copper and aluminium.

The connection casing is made of pre-painted sheet metal.

Applications

The ADRIATIC is well-suited for use in all types of rooms with waterborne climate cooling, such as:

- Offices and conference rooms
- Hotels
- Classrooms
- Data processing rooms
- Bank premises
- Restaurants
- Shops



Figure 1. ADRIATIC with design section Prisma.



Figure 2. ADRIATIC with design section Ellips.



www.eurovent-certification.com www.certiflash.com



Advantages of the ADRIATIC

- The ADRIATIC has an attractive design and extremely low installation height that fits in well in all types of room decor.
- Since the ADRIATIC is a closed climate beam with integrated recirculated air opening in the face plate, it can be mounted directly against the ceiling without regard to circulation air slots.
- The ADRIATIC combines the superior air discharge properties of ceiling units with the stringent design requirements of suspended climate beams. The discharge of air provides the optimal Coanda effect that is always the objective when it is desirable to maintain low air velocities in the occupied zone.
- The connection components are concealed in a simple manner by an attractive connection casing. The casing is installed after the climate beam has been suspended and connected.
- The product provides a unique opportunity to check and adjust the air discharge thanks to ADC and Swegon's slot adjustment as standard.

Design

ADRIATIC is available in two designs, Prisma and Ellips. The different designs provide a choice to fit in with the interior design in the room. The covers for concealing water and air pipes, if required, are available as optional accessories.

Range of products held in stock

As Adriatic is always supplied with a cooling/heating coil, the stocked product covers both cooling and cooling/heating.

ADRIATIC d 1.8-A/B-P-STOCK (6 ft)

ADRIATIC d 2.4-A/B-P-STOCK (8 ft)

ADRIATIC d 3.0-A/B-P-STOCK (10 ft)

Color

The product, the connection casing and the surface mounted assembly piece are painted as standard in RAL 9003 standard color, white, gloss ratio $30 \pm 6\%$, but can also be ordered in the following colors.

RAL 7037 Grey, gloss ratio 30-40%

RAL 9010 White, gloss ratio 30-40%

RAL 9005 Black, gloss ratio 30-40%

RAL 9006 White, gloss ratio 70-80%

RAL 9007 Grey, gloss ratio 70-80%

Special types

On request, the product, the connection casing and the surface mounted assembly piece can also be supplied painted in an optional color or relief finish paint.

For further details about special types, get in touch with your nearest Swegon representative.

Function

The climate beam uses the supply air to operate the cooling and heating function of a central air handling unit and therefore does not include an integrated fan. This gives very quiet operation and minimal maintenance requirements.

The distribution air is distributed from two sides of the unit and uses a large part of the ceiling to spread the air and ensure comfort in the occupied zone.

Adriatic has variable k-factor setting and a large air flow range. The product is available as a Constant Air Volume (CAV) product with fixed k-factor. It can also be ordered as a Variable Air Volume (VAV) and Demand Control Ventilation (DCV) variant from the factory, fitted with control or actuator for air flow control (0-10 V) (see ADRIATIC VAV).

The Adriatic has variable control with a knob for rapid setting of the CAV product. It is also possible to set an asymmetrical air flow in order to adapt to different room types and refurbishments.

The integrated slot control of the air flow means that the product can retain a pressure internally and at the same time supply air with the correct throw lengths, even at low flows.

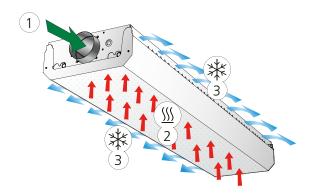


Figure 3. Cooling and supply air function.

1 = Primary air

2 = Induced room air

3 = Primary air mixed with cooled room air

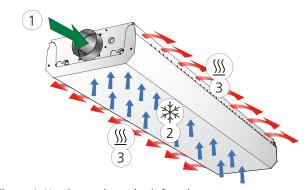


Figure 4. Heating and supply air function.

1 = Primary air

2 = Induced room air

3 = Primary air mixed with heated room air



Flow distribution

Swegon's built-in airflow distributor can be set to different positions and makes it possible to adjust the airflow direction and throw length.

- ADRIATIC provides many opportunities with air settings.
- shorter delivery time because the stocked products have a substantial working range.
- it is simple to change the air flow if changes are made in the installation.
- asymmetrical air flow (e.g. 70/30%) is simple to set on the product during installation.
- with ADC air deflectors, manual airflow adjustment is simple.

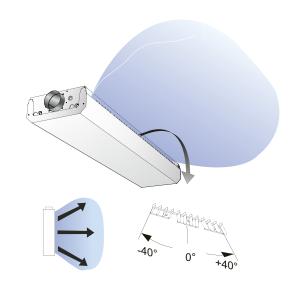


Figure 6. Possible settings for the ADC, Fan-shape.

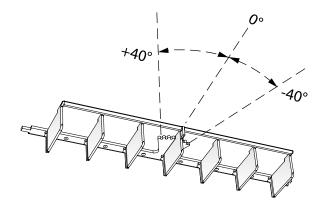


Figure 5. Swegon ADC air deflectors.

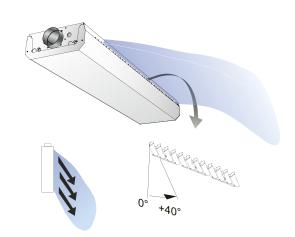


Figure 7. Possible settings for the ADC, X-shape.

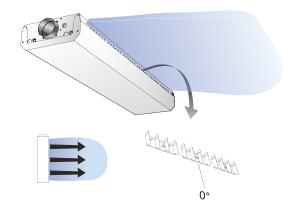


Figure 8. Possible settings for the ADC, straight shape.



Installation

Suspension:

The new Adriatic is fitted with a threaded blind rivet in each corner for simple installation with threaded rods in the ceiling.

The units are shipped as standard without installation accessories. If installation accessories are required, they can be ordered separately.

Installation accessories:

SYST MS-M8 threaded rod kit

ADRIATIC d-T-MD-4S flush mount kit.



The unit is supplied with a lever at each end of one long side for simple folding of the design section and to access e.g. control equipment. When opening, one long side is opened and the design section is then suspended from the opposite long side.

Connection casing

The connection casings are available in several lengths and several selectable colors, and are ordered separately (ceiling brackets included).

Connection to wall

Connection casing that is mounted in the extended section of the climate beam and beyond to a wall designed for concealing pipe and duct connections.

Connection to ceiling

Connection casing with end connection panel is mounted in the extended section of the climate beam and beyond to a ceiling designed for concealing pipe and duct connections.

Note: Min. 3xØ before elbow.

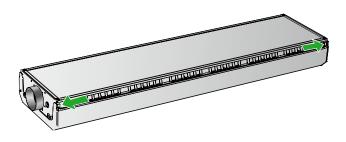


Figure 9. ADRIATIC Prisma with levers for simple opening of the design section.

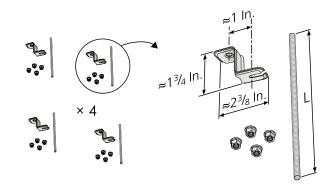


Figure 10. Installation accessory SYST MS M8-1, ceiling mount and threaded rod.

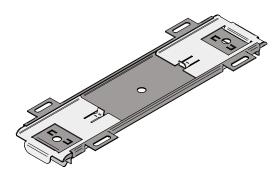


Figure 11. Installation accessory ADRIATIC d-T-MD-4S, for mounting directly against the ceiling.

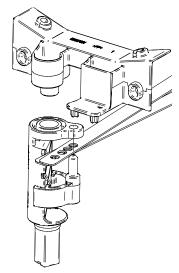


Figure 12. It is also possible to e.g. lock one side using the mechanism above.



K-factor setting

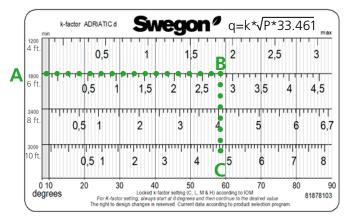
The k-factor can easily be set or adjusted with the help of the knob, which is located on the underside of the product and which is accessible when the design section is opened.

Example: 60 in CFM at 0.4 IN WG, requires k-factor 2 8

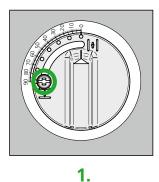
- A: Find the product's length from the left-hand side of the k-factor table.
- **B**: Read the required k-factor on the row in question.
- C: Follow the vertical row and read the number of degrees at the hottom

In the example from the table for an ADRIATIC d with length 1.8 (6 ft), k-factor 2.8, turn the knob to 58°.

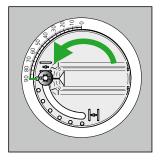
K-factor table



To enter settings for k-factor

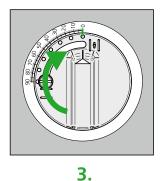


Loosen the screw located in the knob's groove.

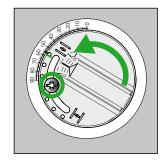


The knob then moves automatically to the fully open position, 90°.

2.



Then turn the knob to the fully closed position, 0°.



Then turn the knob back to the angle for the desired k-factor (58° in our example) and tighten the screw.

4.

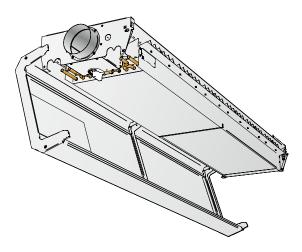


Figure 13. The knob is located on the base module.

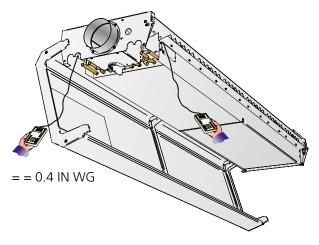


Figure 14. Measuring tubes can be found on the product's two long sides.

$$p_{i} = \left(\frac{q}{k}\right)^{2}$$

$$q = k * \sqrt{p_{i}} * 33.461$$

$$p_{i} [IN WG]$$

$$q [CFM]$$

$$k = k-factor$$

$$k = \frac{q}{\sqrt{p_{i}}}$$

$$33.461 = Metric to Imperial conversion factor$$

Connection

Water

Connection dimensions

Unit	Cooling and heating
(ft)	Supply and return
1 6 9 10	plain pipe end
4, 6, 8, 10	(Cu) Ø 12 x 1.0 mm

Adapters and connectors (accessories)

Unit	Adapter/connector	Cooling	Heating						
(ft.)	(type)	Supply/return	Supply/return						
4, 6, 8, 10	Flexible hose	Ø 12mm to "1/2" NPT	Ø 12mm to "1/2" NPT						
	Nominal pipe thread connection	Ø 12mm to "1/2" NPT	Ø 12mm to "1/2" NPT						
Adapters/connectors are sold as accessories.									

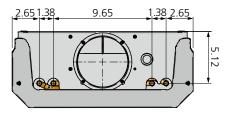


Figure 15. Dimensions ADRIATIC Prisma, end view water connection.

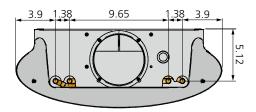


Figure 16. Dimensions ADRIATIC Ellips, end view water connection.



Figure 17. Water connection.

A1 = Supply cooling water Ø12x1.0 mm (Cu)

 $A2 = Return\ cooling\ water\ \emptyset 12x1.0\ mm\ (Cu)$

B1 = Supply heating water Ø12x1.0 mm (Cu)

 $B2 = Return\ heating\ water\ \emptyset 12x1.0\ mm\ (Cu)$

Variant TH

If you want water and air connections on different short sides, Variant TH is available. The dimensions for connecting water and air are the same as for the standard variant.

Note: When ordering valves and actuators for Variant TH, these are enclosed and placed adjacent to the water pipes. They are connected, but installation on the relevant water pipes is required (see label and color marking on the actuators).



Figure 18. Variant TH with air and water connections on different short sides. The example shows both short sides with the TH connection on ADRIATIC Prisma

Connecting water

The water pipes are placed as standard on the same side as the air connection on one of the product's short sides. If you want water and air connections on different short sides, Variant TH is available (see Variant TH).

Connect the water pipes using push-on couplings or compression ring couplings when the product is ordered without valves.

Note that compression ring couplings require support sleeves inside the pipes.

Do not use solder couplings to connect the water pipes. High temperatures can damage the unit's existing soldered joints.

Flexible connecting hoses for water are available for flat-end pipes and valves, and can be ordered separately.

Water quality

Swegon recommends water quality according to VDI 2035-2 for both the heating and cooling systems. In order to maintain the oxygen content in the water below the levels (<0.1 ppm) prescribed in VDI 2035-2, it is recommended to install a vacuum degasser, particularly in the cooling system where it's more challenging to dissolved gas. It is also important for the pre-pressure in the expansion vessel to be dimensioned according to EN-12828 for both the heating and cooling systems and for regular checks to be made of the prepressure.

The cooling and heating systems must be designed to prevent oxygen from entering the system, this is particularly important to consider when selecting flex hose, pipes and expansion vessels. When the system is filled with fresh water, it has an oxygen content of approximately 8 ppm, however, this oxygen is consumed quickly through corrosion processes and within a few days the oxygen in the water should be consumed.

Nevertheless, it is important to avoid filling the system with fresh water unnecessarily.

Automatic deaerators are often installed to facilitate filling of the system. It is recommended that the automatic deaerators are turned off once the system has been fully vented to avoid these drawing in air in the system if the pre-pressure in the expansion vessel should drop.



Air

Unit	Air connection, diameter				
(ft)	Ø in.				
4, 6, 8, 10	5				

Control equipment

See under the section "Accessories" to supplement the product with various control equipment.

ADRIATIC can also be ordered as a VAV product. See ADRIATIC VAV.

To connect the air

ADRIATIC is supplied with an open air connection on one short side. The spigot is connected to the primary air duct.

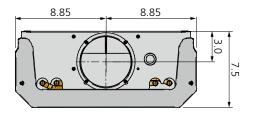


Figure 19. Dimensions ADRIATIC Prisma, end view air connection.

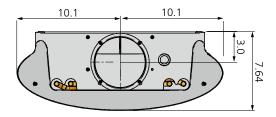


Figure 20. Dimensions ADRIATIC Ellips, end view air connection.



Technical data

The following tables are only examples. For an exact calculation of the product, use RUD or SPC, which can be accessed from our website. www.swegon.com

Key figures

Air flow range	min.	max.	
	0	190	CFM
Pressure range	min.	max.	
	0.08	0.6	IN WG
Cooling capacity total: *	Up to 1	2350 BT	UH
* $\Delta t air = 18 F, \Delta t_{mk} = 21.6 F$			
Heating capacity, water: *	Up to 2	3320 W	
*At Δt_{mk} = 54 F, water flow = 0.17 Cl	FM, chang	geover sy	stem .

Designations

i = commissioning

_ 00.5	
ΔT_m :	Temperature difference $[t_r - t_m] K$
t _r :	Room temperature
t _m :	Average temperature of the water in the beam
ΔΤ:	Temperature difference between inlet - return K
ΔT_{mk} :	Temperature difference, cooling
ΔT_{mv} :	Temperature difference, heating
Suppleme	entary index: v = heating, k = cooling, l = air,

Recommended limit values

Pressure levels

Coil working pressure, max. 232 psi*
Coil test pressure, max. 348 psi*

Commissioning pressure

Recommended lowest commissioning pressure, cooling	Air flow CFM	Commissioning pressure IN WG
	<22.2	0.2
	22.2-53.0	0.12
	>53.0	0.08

Water flow

Min. water flow ensures evacuation of any air pockets in the coil.

Size (ft)	Cooling water, min. GPM	Heating water, min. GPM
4, 6	0.4	0.24
8, 10	0.8	0.24

Recommended max. water flow ensures that the pressure drop in the coil is not larger than max. 2.9 psi

Size (ft)	Cooling water, max. GPM	Heating water, max. GPM
4, 6	0.21	3.65
8	0.3	3.65
10	0.425	3.65

Supply flow temperature

Cooling water, min. **
Heating water, max. 140 F

Cooling

Cooling capacities are measured in conformity with EN

Note: The total cooling capacity is the sum of the airborne and waterborne cooling capacities.

ADRIATIC d is always supplied with cooling/heating, even if only cooling is required.

Heating

Chilled beams are convenient for heating because they can heat with lower temperature hot water, resulting in energy savings and less thermal stratification.

The heat is conducted along the ceiling which, in order to work properly, requires a low supply flow temperature and a certain impulse. A temperature gradient of 5.4 F is normally obtained between floor and ceiling.

Recommendations for excess heat operation

Max. permissible supply flow temperature: 140 F
Min. permissible heating water flow: 0.225 gpm
Nozzle pressure, p;: >0.12 IN WG



^{*}Applies without valves or other extra equipment mounted on the coil

^{**} Cooling water must always be kept at a level that ensures that no condensation is formed.

Table 1 – data – cooling. Sizing Guide for Adriatic d at total pressure 30 Pa

Unit	Air flow	Sound level	Cooling capacity, primary air at ΔΤ ₁ BTUH			Cooling capacity, water at ΔT_{mk} BTUH				Pressure drop constant, air		
ft	CFM	dB(A)	6	8	10	12	6	7	8	9	10	kpl
4,0	23	<20	270	362	451	539	761	894	1027	1160	1294	67
4,0	34	<20	392	526	655	785	829	966	1102	1239	1379	99
4,0	34	<20	392	526	655	785	1205	1420	1618	1833	2031	99
6,0	51	<20	590	785	983	1181	1324	1553	1761	1986	2195	150
6,0	23	<20	270	362	451	539	1239	1447	1655	1863	2055	67
8,0	49	<20	567	754	942	1130	1662	1935	2208	2481	2751	144
8,0	72	21	836	1113	1393	1672	1717	2000	2283	2567	2846	220
8,0	28	<20	321	427	532	638	1454	1696	1939	2177	2396	80
10,0	57	<20	662	884	1106	1328	1980	2297	2618	2935	3256	170
10,0	85	23	983	1311	1638	1966	2027	2358	2686	3044	3369	264

Table 2 – data – cooling. Sizing Guide for Adriatic d at total pressure 50 Pa

Unit	Air flow	Sound level	Cooling capacity, primary air at ΔΤ ₁ BTUH			Cooling capacity, water at ΔT_{mk} BTUH					Pressure drop constant, air	
ft	CFM	dB(A)	6	8	10	12	6	7	8	9	10	kpl
4,0	30	<20	345	457	573	689	956	1116	1276	1440	1601	66
4,0	44	24	515	689	860	1031	1007	1174	1341	1526	1693	101
6,0	21	<20	246	328	410	491	1092	1273	1454	1635	1833	47
6,0	42	<20	491	655	819	983	1495	1754	2014	2273	2536	96
6,0	66	25	761	1017	1270	1522	1611	1887	2164	2437	2713	150
8,0	30	<20	345	457	573	689	1628	1898	2140	2410	2676	66
8,0	64	21	737	983	1229	1474	2051	2382	2747	3079	3410	145
8,0	93	28	1082	1440	1802	2164	2072	2420	2799	3150	3498	220
10,0	36	<20	416	556	696	836	1942	2256	2570	2887	3201	81
10,0	72	20	836	1113	1393	1672	2464	2853	3242	3669	4058	166
10,0	110	30	1276	1703	2130	2556	2488	2891	3331	3737	4143	267

Table 3 – data – cooling. Sizing Guide for Adriatic d at total pressure 70 Pa

	and a data to a data											
Unit	Air flow	Sound level	Cooling	g capacity, p	orimary air at	t ΔT ₁ (K)		Cooling ca	pacity, wate	r at ΔT _{mk} (K)		Pressure drop constant, air
ft	CFM	dB(A)	6	8	10	12	6	7	8	9	10	kpl
4,0	34	<20	392	526	655	785	1051	1246	1423	1601	1778	64
4,0	51	28	590	785	983	1181	1123	1311	1498	1703	1891	97
6,0	25	<20	294	392	491	590	1276	1505	1713	1942	2154	48
6,0	51	21	590	785	983	1181	1710	2000	2294	2584	2877	97
6,0	76	30	884	1181	1474	1768	1816	2119	2423	2730	3038	148
8,0	36	<20	416	556	696	836	1911	2222	2532	2846	3157	68
8,0	74	25	860	1147	1433	1720	2311	2679	3085	3454	3826	143
8,0	110	33	1276	1703	2130	2556	2317	2707	3130	3522	3949	220
10,0	42	<20	491	655	819	983	2242	2601	2962	3355	3713	80
10,0	85	25	983	1311	1638	1966	2775	3208	3683	4119	4594	165
10,0	129	35	1498	2000	2498	2997	2782	3232	3724	4218	4672	264

 $Water flow = 0.8 \ GPM \ for \ 4 \ ft \ and \ 6 \ ft, \ water flow = 1.6 \ GPM \ for \ 8 \ ft \ and \ 10 \ ft, \ temperature \ supply \ pipe \ +57.2°F.$

 $The \textit{ specified sound level applies to straight connection without damper or \textit{ with fully open damper. Room attenuation} = 4 \textit{ dB}.$



Table 4 – data – heating. Sizing Guide for Adriatic d at 30 Pa

Unit	Air flow	Sound level		Heating		Pressure drop constant, air		
ft	CFM	dB(A)	15	20	25	30	35	kpl
4,0	23	<20	898	1253	1614	1993	2379	67
4,0	34	<20	969	1345	1737	2143	2556	99
6,0	34	<20	1440	2003	2590	3191	3816	99
6,0	51	<20	1556	2164	2802	3444	4113	150
8,0	23	<20	1625	2246	2874	3526	4171	67
8,0	49	<20	1925	2672	3427	4195	4990	144
8,0	72	21	2113	2901	3724	4563	5413	220
10,0	28	<20	1952	2686	3444	4212	5007	80
10,0	57	<20	2294	3167	4068	5003	5952	170
10,0	85	23	2522	3461	4444	5440	6447	264

Table 5 – data – heating. Sizing Guide for Adriatic d at 50 Pa

Unit	Air flow	Sound level		Heating	Pressure drop constant, air			
ft	CFM	dB(A)	15	20	25	30	35	kpl
4,0	30	<20	969	1345	1737	2143	2556	66
4,0	44	24	1113	1546	1993	2454	2922	101
6,0	21	<20	1362	1877	2420	2973	3536	47
6,0	42	<20	1648	2283	2956	3631	4328	96
6,0	66	25	1782	2481	3205	3959	4713	150
8,0	30	<20	1881	2590	3321	4065	4833	66
8,0	64	21	2253	3102	3980	4867	5768	145
8,0	93	28	2447	3379	4317	5294	6277	220
10,0	36	<20	2270	3130	4010	4908	5833	81
10,0	72	20	2659	3672	4710	5768	6860	166
10,0	110	30	2918	4031	5167	6324	7492	267

Table 6 – data – heating. Sizing Guide for Adriatic d at 80 Pa

	Unit Air flow Sound level Heating capacity, water at ΔT (K) Pressure drop constant, air								
Unit	Air flow	Sound level		Heating capacity, water at $\Delta \Gamma_{_{mv}}$ (K)					
ft	CFM	dB(A)	15	20	25	30	35	kpl	
4,0	34	<20	1099	1526	1966	2420	2884	64	
4,0	51	28	1201	1676	2157	2659	3164	97	
6,0	25	<20	1485	2055	2642	3256	3864	48	
6,0	51	21	1795	2485	3208	3966	4720	97	
6,0	76	30	1945	2696	3474	4287	5109	148	
8,0	36	<20	2079	2853	3662	4471	5304	68	
8,0	74	25	2444	3375	4314	5290	6273	143	
8,0	110	33	2676	3683	4717	5765	6843	220	
10,0	42	<20	2468	3413	4382	5369	6348	80	
10,0	85	25	2891	4000	5137	6297	7464	165	
10,0	129	35	3188	4403	5631	6898	8174	264	

Water flow = 0.8 GPM, room temperature $68^{\circ}F$

The specified sound level applies to straight connection without damper or with fully open damper. Room attenuation = 4 dB



Optional extras and accessories

Factory-fitted accessories

The accessories below can be ordered fitted on the product, and will then be connected to the terminal block.

Controller, URC1

ADRIATIC can be ordered with factory-fitted controller URC1



Valve (Straight)

ADRIATIC can be ordered with factory fitted valves for cooling and heating.

The valve is mounted on the product and preset fully open.

Length	Function	Туре	Dim.	K _v (GPM)
4, 6, 8, 10 ft	Cooling/heating	VDN215	DN15 (½")	0.3-3.9

For more information about the valve, see the separate product data sheet on www.swegon.com.



Valve actuator, ACTUATORc

ADRIATIC can be ordered with factory fitted valve actuators for cooling and heating. 24V AC/DC, NC (Normally Closed).

For more information about the valve actuator, see the separate product data sheet on www.swegon.com.

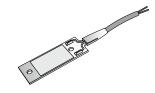


Condensation sensor CG-IV

CG-IV is a condensation sensor with sensor element, consisting of a circuit board with gold plated conductive paths that react when condensation occurs between the paths.

When condensation arises, the cooling valve closes the incoming water flow to the product. The cooling valve is permitted to open again when the condensation on the conductive paths has been wiped off.

Compatible with LUNA

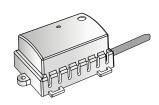


Condensation sensor WCD2

The detector operates at the dew point temperature rather than a fixed relative humidity value.

The dew point is calculated from a temperature-compensated RH element and an extremely accurate sensor element that are thermally bound to the metal plate on the detector.

Compatible with LUNA



Variant TH

Water and air on opposite sides





Loose accessories

Controller LUNA RE

To control the room temperature. Set point value is set on the controller, which is mounted on the wall.

- Four outputs to control heating and cooling actuators.
- Built-in temperature sensor and possibility to connect an external temperature sensor.
- Four inputs for condensation sensor or presence sensor.

Controller LUNA RE for installation on a wall is ordered separately.

Surgori

Controller LUNA RC

Versatile room controller for temperature control of air, heating and cooling. Available in standard version with built-in CO₂ sensor.

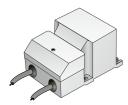
- Built-in temperature sensor and possibility to connect an external temperature sensor.
- Built-in communication port for connection to a communication bus for reading values from a computer.
- Four outputs to control heating and cooling actuators.
- Inputs for condensation sensor or presence sensor.

Controller LUNA RC for installation on a wall is ordered separately.



Transformer SYST TS-1 72 VA

Double-insulated protective transformer 230 V AC/24 V AC See separate product datasheet on www.swegon.com.



Transformer, Power Adapt 20 VA

Double insulated protective transformer with plug type F.

Input voltage: 230 V. Output voltage 24 V AC

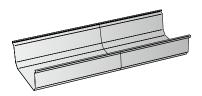
See the separate product data sheet on www.swegon.com.



Connection casing, connection to wall, ADRIATIC d KA

Connection casing in two parts to be mounted in the extended section of the climate beam and beyond to a wall designed for concealing pipe and duct connections.

The casing is available in eleven different length ranges.



Connection casing, connection to ceiling, ADRIATIC d KA-G

Connection casing with end connection panel designed for concealing pipe and duct connections when connecting to a ceiling.

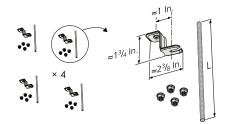
The casing is available in six different lengths.





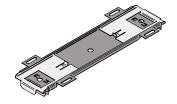
Installation accessory, SYST MS M8

For installation, use the installation accessory containing threaded rods, ceiling brackets and nuts for all four mounting brackets. Also available with double threaded rods and thread locks.



Assembly piece, ADRIATIC d-T-MD-4S

Special assembly piece for installation directly against the ceiling. Available in 2-packs and 3-packs.



Flexible connection hoses, SYST FH F50

Flexible hoses, Length: 6, 12, 18, 24 and 36 inch.

Quick fit coupling (push-on Ø12 mm against pipe on one end and 1/2" NPT male coupling on the other end.

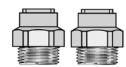
SYST FH-F50-6in.-12-1/2in. NPT, SYST FH-F50-12in.-12-1/2in. NPT SYST FH-F50-18in.-12-1/2in. NPT, SYST FH-F50-24in.-12-1/2in. NPT SYST FH-F50-36in.-12-1/2in. NPT



NPT-connection, SYST CS

Nominal pipe thread connection.

Ø 12mm to "1/2" NPT



Bleed nipple SYST AR-12

Nipple for venting the water circuit. Equipped with push-on connector adapted for installation with flexible connection hose F50.



Connection piece, air - double nipple, SYST AD1

SYST AD1 is used as an insertion joint between the ADRIATIC and the duct system.

Available in size: Ø5 in



Connection piece, air - 90° duct bend, SYST CA

90° duct bend for air connection. Nipple connection with seals at both ends.

Dimensions: Ø5 in





Dimensions and weight

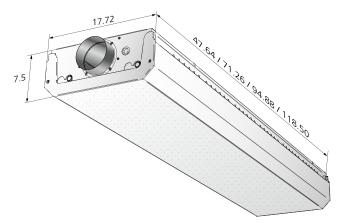


Figure 21. Dimensional drawing (in.) - ADRIATIC Prisma.

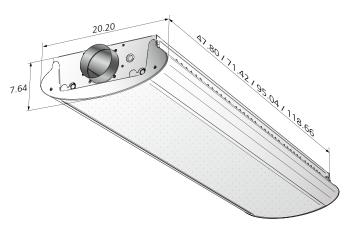


Figure 22. Dimensional drawing (in.) - ADRIATIC Ellips.

Installation

The c-c dimensions are the same for ADRIATIC with design modules Prisma and Ellips. Prisma is shown in the example to the right.

	Suspended installation			
Unit	c-c (in)	c-c (in)		
ft	Short side	Long side		
4	15.43	46.10		
6	15.43	69.72		
8	15.43	93.35		
10	15.43	116.97		

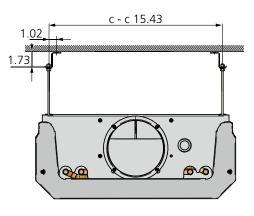


Figure 23. Installation - suspended installation with installation accessory SYST MS-M8.

Weight

Weight excluding controller, valves, actuators and sensors.

ADRIATIC Prisma								
Unit	(pound,	Weight with water (lbs)						
ft	lbs)	A: ₩	A/B: ∜/ <u>₩</u>					
4	39.9	42.1	42.5					
6	58.4	61.7	62.6					
8	76.7	81.4	82.5					
10	93.7	99.4	101.0					
ADRIATIC Ellips								
Unit	(pound,							
ft	lbs)	A: ₩	A/B: ∜/ <mark>\\</mark>					
4	41.4	43.7	44.1					

63.7

84.0

102.7

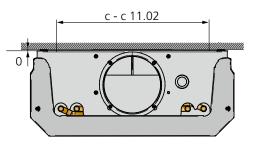


Figure 24. Installation - directly against the ceiling with installation accessory ADRIATIC d-T-MD-4S.

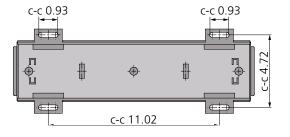


Figure 25. Dimensions - ADRIATIC d T-MD-4S



6

8

10

60.4

79.4

97.0

64.6

85.1

104.3

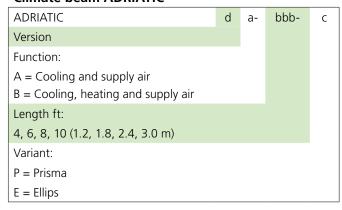
Specification

Type ADRIATIC active climate beam incl. ADC air deflector for cooling and ventilation or cooling, heating and ventilation.

The units are supplied painted in Swegon's standard shade of white, RAL 9003, gloss ratio $30 \pm 6\%$.

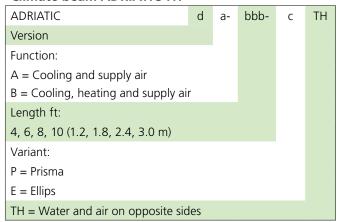
Product

Climate beam ADRIATIC



Also read about our range of products held in stock on page 4.

Climate beam ADRIATIC TH



Color

The product, the connection casing and the surface mounted assembly piece are painted as standard in RAL 9003 standard color, white, gloss ratio $30 \pm 6\%$, but can also be ordered in the following colors.

RAL 7037 Grey, gloss ratio 30-40%

RAL 9010 White, gloss ratio 30-40%

RAL 9005 Black, gloss ratio 30-40%

RAL 9006 White, gloss ratio 70-80%

RAL 9007 Grey, gloss ratio 70-80%

Special types

On request, the product, the connection casing and the surface mounted assembly piece can also be supplied painted in an optional color or relief finish paint.

For further details about special types, get in touch with your nearest Swegon representative.

Accessories

Connection casing ADRIATIC d KA- aaaa bbbb

Length: (in.)
7.87-13.78, 11.81-17.72, 15.75-21.65
19.69-25.59, 19.69-39.37, 35.43-41.34
35.43-53.15, 35.43-68.90, 62.99-68.90
62.99-96.46, 62.99-124.02

Connection casing with end connection panel

Length: (in.)
7.87, 11.81, 15.75, 19.69, 35.43, 62.99

Assembly fitting SYST MS M8 aaaa- b- RAL9003 (For suspended installation)

Length of threaded rod:
7.9, 19.7, 39.4 (in.)

1 = threaded rod only
2 = Double threaded rods with thread locking device

Assembly fitting ADRIATIC d-T-MD-4S a
(For installation directly against the ceiling)

Quantity per pack
2 = 2 pcs
3 = 3 pcs

Flexible connection hose (1)

Quick fit coupling (push-on Ø12 mm against pipe on one end and 1/2" NPT male coupling on the other end.

Length:
6, 12, 18, 24 and 36 inch.

Dimension (Ø) 12 mm

Connection piece SYST CA-4.92-90 (90° duct bend)

Specification text

Contact Swegon or your Swegon representative for 3-part guide specifications.

