PACIFIC

Integrated chilled beam

QUICK FACTS

- **Modular & future-ready** – Flexible modules and upgrade kits make it easy to adapt to new layouts or digital upgrades.
- **Superior indoor comfort** – Flow Control and Anti-Draft technology ensure quiet, consistent comfort in any space.
- **Sustainable by design** – Crafted from recycled steel, supporting low carbon impact and circularity.
- **Architectural flexibility** – Modern design with multiple colour options fits any ceiling or interior style.
- **Integrated SA/EA air modules** – Optional supply and extract modules for a seamless look.
- **Coanda frame option** – Optimized air distribution for open ceilings, eliminating drafts.

Primary airflow l/s	Pressure range Pa	Cooling capacity W	Heating capacity Water W
Up to 97	30 to 150	Up to 2158	Up to 2494

Additional SA/EA module		
SA: Supply airflow l/s	SA: Cooling capacity W	EA: Extract airflow l/s
Up to 65	Up to 470	max. 100

Size				
Length (mm)	Width (mm) min./max.	Hight (mm) Ø125	Ø160	Ø200
1200, 1800, 2400, 3000*	594 / 667*	189	244	299

** The PACIFIC is obtainable in lengths and widths that fit the majority of false ceilings available on the market.*

Cooling, air: ΔT_l = 6K / water: ΔT_{mk} = 8,5K, t_{water} = 14/17,3°C, waterflow 0,1l/s
Heating, air: ΔT_l = -1K / water: ΔT_{mk} = 16K, t_{water} = 45/31°C, waterflow 0,045l/s
Commissioning pressure: 70 Pa
30dB with 5db room attenuation

Contents

Technical description

Design

CAV – 2-way blowing chilled beam

- Reliable comfort.
- Simple operation.
- Modern design.

PACIFIC is a new generation of 2-way blowing chilled beams designed for buildings that require stable airflow, excellent comfort and a clean, architectural appearance. The beam delivers cooling, heating and ventilation with high induction and low sound levels — perfect for offices, schools and hotels.

PACIFIC is designed for seamless ceiling integration, offering flexible linear installation in both continuous series and individual units to accommodate a wide range of architectural designs. This design allows for creative and functional solutions that can adapt to various interior layouts and design preferences.

Figure 1. PACIFIC

Figure 2. PACIFIC from the opposite side with terminal block

Modular by design

The PACIFIC platform is built from interchangeable modules:

- **Air Duct Module** - Available in three duct sizes and several lengths with integrated damper for easy balancing.
- **Capacity Module** - High-performance cooling and heating coil, available in several lengths to match different room sizes and loads.
- **Design Module** - Modern, clean surfaces with hidden water and air connections — allowing the beam to blend seamlessly into any interior.

This modularity simplifies design, installation, and future adaptations.

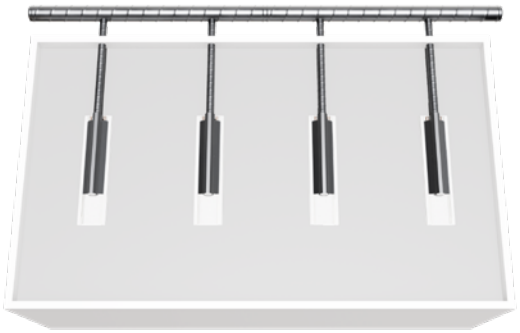


Figure 3. Example with four PACIFIC installed in a room.

Lightweight & service-friendly

Construction reduces weight and improves access to all internal components.Ideal for buildings with tight installation spaces and renovation projects.

Quiet and efficient

- High induction ensures excellent air quality and thermal comfort
- Low pressure drop reduces fan energy
- Quiet operation suitable for noise-sensitive environments.

Sustainable by default

- Optimised material use
- Constructed from reused and renewably produced steel
- Long service life and easy refurbishment

Figure 4. Example with PACIFIC installed in serie.

Functionality

Constant Air Volume (CAV) comfort

PACIFIC operates with a fixed supply airflow while water flow is controlled to match the room's cooling and heating needs. This ensures:

- Stable induction
- Effective mixing and consistent comfort
- Predictable and reliable performance

Flow Control

Flow Control is an integrated damper for fast and easy balancing during commissioning and layout changes.

Anti Draught Control (ADC)

Anti Draught Control (ADC) ensures that airflows can be redirected to reduce the risk of draughts in the occupied zone.

Modularity

As buildings become more energy-efficient, cooling and heating demands decrease while fresh air needs remain occupant-driven. PACIFIC meets these requirements with a fully modular design:

- The capacity module is tailored to the required thermal load.
- The Airduct module is sized for the number of occupants.
- The design module can include a service hatch or supply/extract air modules.

This flexibility improves comfort, simplifies project design and supports long-term sustainability.

Figure 5. Flow Control for fast and easy balancing during commissioning and layout changes

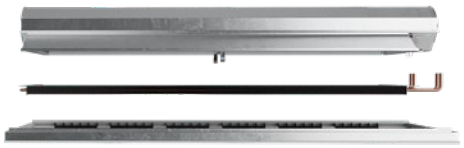


Figure 6. PACIFIC full size.

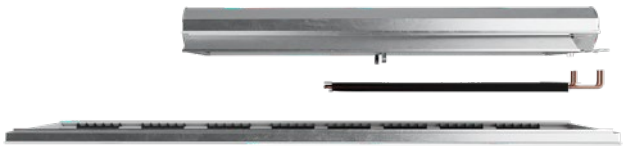


Figure 7. PACIFIC with Air duct module, Capacity module and Design module in three different sizes.

Material and surface treatment

Material

The air module is manufactured in RRP recycled and renewably produced galvanized sheet steel (zinc plated)

The capacity module (coil) is in copper and aluminium.

The design module (face plate) is in RRP recycled and renewably produced galvanized sheet steel (zinc plated) and painted in desired colour.

Standard colour:

- RAL 9003 White (Signal white), gloss ratio 30 ± 6%

Alternative standard colours:

- RAL 7037 Grey (Dusty gray), gloss ratio 30-40%
- RAL 9010 White (Pure white), gloss ratio 30-40%
- RAL 9005 Black (Jet black), gloss ratio 30-40%
- RAL 9006 Silver (White aluminium), gloss ratio 70-80%
- RAL 9007 Grey (Grey aluminium), gloss ratio 70-80%)

Other colours available on request

Certifications/Standards

- EPD Declaration
- CE Declaration
- Eurovent

Adaptation

Installation in open plenum ceilings

Renovated buildings where open plenum ceilings are desired, PACIFIC allows architects and designers to realize their vision without compromise.

With PACIFIC's Coanda frame, air distribution is optimized, ensuring comfort and preventing drafts in the occupied zone, *(see figure 8)*.

Figure 8. PACIFIC with coanda frame for installation in open plenum. PACIFIC T-CF

Plasterboard frame

The plasterboard frame is designed to create a seamless and integrated transition between the PACIFIC unit and the surrounding plasterboard ceiling, *(see figure 9).*

It allows for fine adjustments within the ceiling cut-out, ensuring precise alignment during installation and a clean final appearance. This compensates for tolerances in ceiling construction and simplifies on-site mounting.

Figure 9. PACIFIC with Plasterboard frame, PACIFIC T-FPB

SA/EA module

An additional supply air (SA) and integrated extract air (EA) module can be added using an extended design frame, creating a seamless and unified appearance in the ceiling.

The SA/EA module is engineered to ensure optimal airflow separation, preventing short-circuiting between supply and extract air. This maintains efficient ventilation performance, supports good room air quality and preserves the intended air distribution pattern, *(see figure 10).*

Figure 10. SA/EA module (Supply/Extract air module)

Longer design module

In certain cases it could be advantageous to select a design module that is extra long in relation to the capacity module. One typical case is when the beam is installed in a plasterboard ceiling and there is a need for inspecting the valves and/or the commissioning damper.

By employing a design module that is longer than the air module and the capacity module, you get a built-in inspection cover per automatic control system, *(see figure 11).*

The inactive section of the design module is covered to avoid acoustic disturbance and so that the space above the false ceiling will not be visible from the room.

Figure 11. Built-in inspection cover through shorter capacity module or longer design module.

The face plate

The face plate of the design module is hinged and can be swung out from either side to a 90-degree open position. This completely exposes the coil for cleaning. Safety cords secure the face plate and ensure that it cannot fall down, *(see figure 10).*

Technical data

Dimensions

The product is available in different sizes

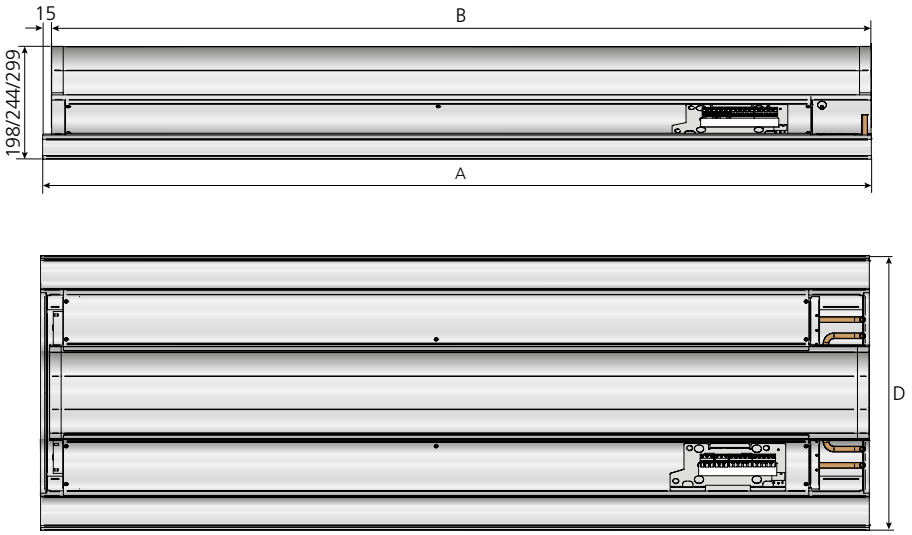


Figure 12. Dimension sketch - full size

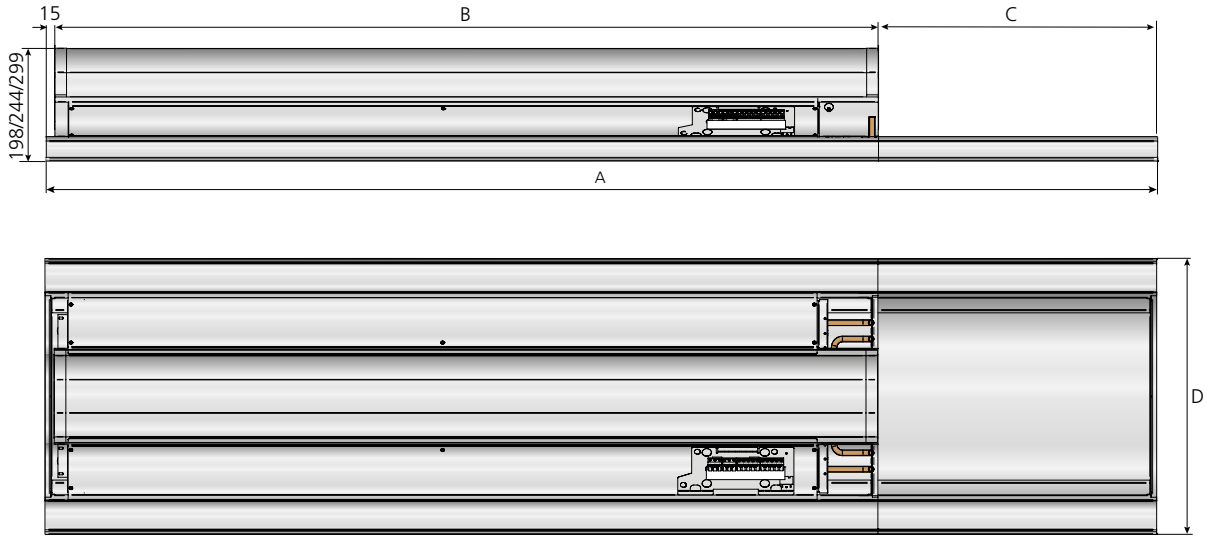


Figure 13. Dimension sketch - Modules in different sizes

For design module in T-bar with 600 mm centre-to-centre

A	B	C	D
1194; 1794	1170	(1194)=24; (1794)=624	594
1794; 2394	1770	(1794)=24; (2394)=624	594
2394; 2994	2370	(2394)=24; (2994)=624	594
2994	2970	(2994)=24	594

For design module in T-bar with 625 mm centre-to-centre

A	B	C	D
1242; 1867	1170	(1242)=72; (1867)=697	617
1867; 2492	1770	(1867)=97; (2492)=722	617
2492	2370	(2492)=122	617

For design module in T-bar with 675 mm centre-to-centre

A	B	C	D
1342; 2017	1170	(1342)=172; (2017)=847	667
2017; 2692	1770	(2017)=247; (2692)=922	667
2692	2370	(2692)=322	667

For design module in Clip-in ceiling and sheet metal ceiling coffers

A	B	C	D
1198; 1498; 1698; 1715; 1798	1170	(1198)=28; (1498)=328; (1698)=528; (1715)=545; (1798)=628	598
1798; 2398	1770	(1798)=28; (2398)=628	598
2398; 2998	2370	(2398)=28; (2998)=628	598
2998	2970	(2998)=28	598

Weight

Since the product can be combined in numerous combinations, we show the weight for the three different modules, where you pick your size and add them together to have the total weight of your product.

Air module

Length	Air connection	Weight
(mm)	ø	(kg)
1170	125	6,38
1170	160	6,94
1170	200	7,66
1770	125	9,63
1770	160	10,36
1770	200	11,46
2370	125	12,74
2370	160	13,75
2370	200	15,11
2970	125	15,8
2970	160	17,03
2970	200	18,71

Capacity module

Length	Dry weight
(mm)	(kg)
1000	3,41
1000 NPT	3,79
1600	5,02
1600 NPT	5,4
2200	7,06
2200 NPT	7,44
2800	8,63
2800 NPT	9,01

Design module

Length	Width	Weight
(mm)	(mm)	(kg)
1194	594	5,35
1794	594	7,65
2394	594	9,96
2994	594	12,27
1198	598	5,39
1798	598	7,72
2398	598	10,04
2998	598	12,36
1213	603	5,49
1823	603	7,87
2433	603	10,25
3043	603	12,63
1242	617	5,72
1867	617	8,21
2492	617	10,71
1342	667	6,55
2017	667	9,46
2692	667	12,38

Cooling

The capacities are measured in conformity with EN 15116.

Sizing guide, Table 2.
The values in table 2 refer to the combination of the product's largest possible Air module with its largest possible capacity module, for the listed product length.
Example: Product length: 1800 mm
Air module: 1770 mm
Capacity module: 1600 mm

N.B.! The total cooling capacity is the sum of the airborne and waterborne cooling capacities.

Designations

P: Capacity (W, kW)

t_r: Room temperature (°C)

t_m Mean water temperature (°C)

v: Velocity (m/s)

q: Airflow (l/s)

p: Pressure, (Pa, kPa)

ΔT_m: Temperature differential [t_r - t_m] (K)

ΔT: Temperature differential, between inlet – return (K)

Supplementary index: k = cooling, v = heating, l = air, i = commissioning

Diagrams 1a-1b.
The correction factor in Diagram 1 shows how the cooling capacity is affected by the water flow, assuming that the temperature difference between the room and the mean cooling water temperature is kept constant. A correction factor of 0.7 corresponds to a 30% reduction in cooling capacity, compared to correction factor 1.0.

The diagram is valid for the 1000-capacity module; however, the curve is very similar for the 1600-capacity module as well. The diagram is intended to provide a general indication of how the water flow affects the cooling capacity. If specific cooling capacity values are required for a water flow other than the one specified in the cooling capacity table, the calculation software Single Product Calculator must be used.

The cooling capacity of the primary air for chilled beam and additional SA module
The following formula can be used for calculating the cooling capacity of the primary air for the chilled beam and the additional SA module:

$$P_l = q_l \times 1.2 \times \Delta T_l$$

P_l = cooling capacity of the primary air (W)

q_l = the primary airflow (l/s)

ΔT_l = Temperature differential between the temperature of the primary air and the room temperature (K)

Pressure drop for the cooling circuit
The following formula for calculating the pressure drop in the cooling circuit:

$$\Delta p_k = A * q_k^B$$

A = constant, read from table 1 (Kpa)

B = constant, read from table 1

q_k = cooling water flow (l/s)

Table 1. Pressure drop, water in capacity module

Capacity module, Length (mm)	A	B
1000	708,1	1,69
1600	983,5	1,72
2200	580,7	1,80
2800	597,6	1,76

Diagram 1a. Water flow – capacity correction, cooling
Length of Capacity module: 1000 and 1600 mm

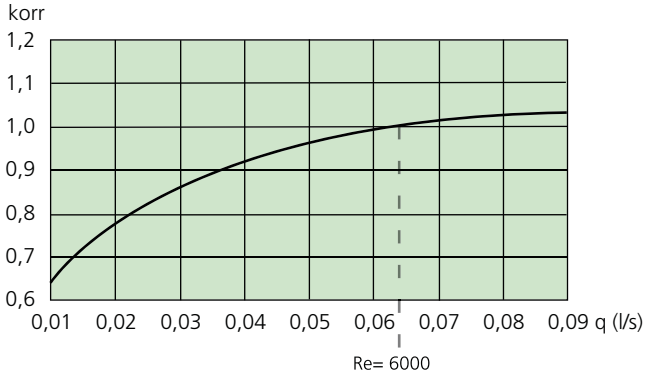


Diagram 1b. Water flow – capacity correction, cooling
Length of Capacity module: 2,200 and 2800 mm

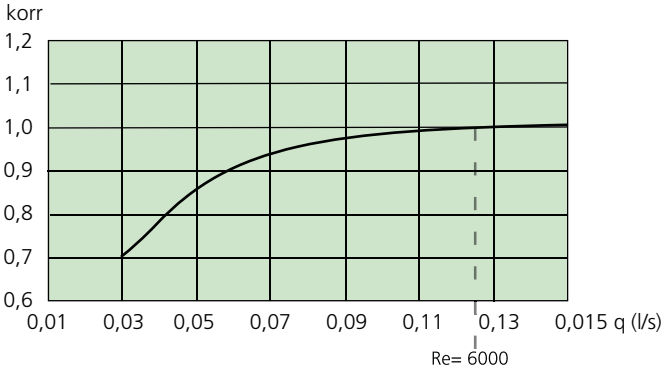


Table 2. Data – Cooling. Sizing guide for the PACIFIC , 70 Pa nozzle pressure

Product length	Airflow		Sound level, dB(A) * Connection (mm)			Cooling capacity, primary air (W), ΔT_l			Cooling capacity of the water (W), ΔT_{mk}					k-factor
(mm)	(l/s)	(m³/h)	Ø125	Ø160	Ø200	6	8	10	6	7	8	9	10	
1200 **	12,5	45	<20	<20	<20	91	121	152	290	338	387	435	488	1,5
1200 **	23,4	84	<20	<20	<20	170	226	283	346	409	466	523	585	2,8
1200 **	36,0	130	24	21	22	261	348	435	381	448	509	576	638	4,3
1800 **	25,9	93	<20	<20	<20	188	251	313	480	563	645	735	811	3,1
1800 **	38,5	139	21	<20	21	279	372	465	528	617	706	795	884	4,6
1800 **	51,0	184	26	23	24	370	493	617	552	643	743	835	927	6,1
2400 ***	34,3	123	21	<20	<20	249	332	415	686	809	922	1035	1159	4,1
2400 ***	51,9	187	23	20	20	376	501	627	763	897	1021	1156	1280	6,2
2400 ***	71,1	256	28	25	24	516	687	859	810	939	1080	1210	1351	8,5
3000 ***	46,0	166	26	20	<20	334	445	556	866	1024	1182	1342	1502	5,5
3000 ***	71,1	256	35	27	24	516	687	859	982	1150	1318	1488	1657	8,5
3000 ***	87,8	316	39	33	27	637	849	1062	994	1164	1335	1505	1677	10,5

** The specified sound level is applicable to straight connection without duct bend and commissioning damper.*
Room attenuation = 5 dB.
***) = The water capacity is specified for a water flow of 0.05 l/s and can vary depending on the installation and how the ADC air deflectors are set.*
****) = The water capacity is specified for a water flow of 0.1 l/s and can vary depending on the installation and how the ADC air deflectors are set.*
Detailed acoustic data can be obtained by sizing with Swegon's Single Product Calculator or Room Unit Design available at Swegon's home page: www.swegon.com.

Heating

Waterborne heating

The PACIFIC is as standard equipped with a coil containing two separate tube circuits. The first functions as a cooling circuit and the second as a heating circuit. When hot water circulates in the tube circuit, the recirculated air from the room is heated up in the coil, is then mixed with the primary air and is distributed to the room. The inlet flow temperature of the heating water should be kept as low as possible to minimise the temperature differential between the air at ceiling level and at floor level. The temperature stratification in the room will be negligible if the inlet flow temperature is kept at 40°C or lower. If the inlet flow temperature is up to the recommended max temperature (60°C), the stratification will be perceptible even if it normally is within the prescribed range.

In the majority of cases, the system will heat the room air to a satisfactory temperature. In order to achieve good operating temperature, other factors must be taken into account. The following factors are typical in this respect: Window dimensions, the U factor of the windows, the orientation of the room, the location of the occupants, etc. The quality and dimensions of the windows are also important with regard to possible cold down draughts. The windows used now-a-days are usually so well insulated that cold down draughts do not arise. Cold down draughts are especially likely to occur in the renovation of old buildings if the planner decides to keep the existing windows.

Recommendations for waterborne heating	
Max. permissible inlet flow temperature:	60° C
Min. permissible heating water flow:	0.013 l/s
Min. permissible nozzle pressure:	50 Pa

Sizing guide, Table 4.

The values in table 4 refer to the combination of the product's largest possible Air module with its largest possible capacity module, for the listed product length.
Example: Product length: 1800 mm
Air module: 1770 mm
Capacity module: 1600 mm

N.B.! The total heating capacity is the sum of the airborne and waterborne heating capacities. If the primary air temperature is lower than the room temperature, it causes negative impact on the total heating capacity.

The heating capacity of the primary air for chilled beam and supply air module

The following formula can be used for calculating the heating capacity of the primary air for the chilled beam and the supply air module:

$$P_l = q_l \times 1.2 \times \Delta T_l$$

P_l = heating capacity of the primary air (W)

q_l = the primary airflow (l/s)

ΔT_l = Temperature differential between the temperature of the primary air and the room temperature (K)

Diagram 2.

The correction factor in Diagram 2 shows how the heating capacity is affected by the water flow, assuming that the temperature difference between the room and the mean heating water temperature is kept constant. A correction factor of 0.7 corresponds to a 30% reduction in heating capacity, compared to correction factor 1.0.

The diagram is valid for the 2200-capacity module; however, the curve is very similar for the other capacity module sizes as well. The diagram is intended to provide a general indication of how the water flow affects the heating capacity. If specific heating capacity values are required for a water flow other than the one specified in the cooling capacity table (0.05 l/s), the calculation software Single Product Calculator must be used.

Pressure drop for the heating water circuit

Use the following formula for calculating the pressure drop in the heating circuit:

$$\Delta p_k = A * q_k^{\ B}$$

A=constant, read from table 3, (Kpa)

B=constant, read from table 3

q_k=heating water flow (l/s)

Table 3. Pressure drop water in capacity module

Capacity module, Length (mm)	A	B
1000	115,8	1,39
1600	192,0	1,39
2200	106,9	0,99
2800	139,6	0,99

Diagram 2. Water flow – capacity correction, heating

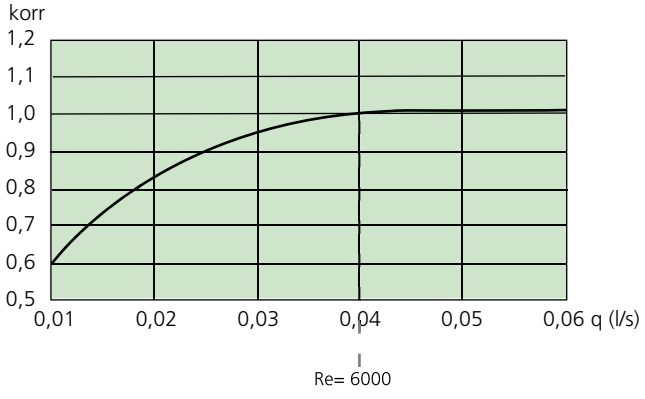


Table 4. Data – Heating. Sizing guide for the PACIFIC, 70 Pa

Product Length	Airflow		Sound level, dB(A) * Connection (mm)			Heating capacity, water (W) ** ΔT_{mv}					k-factor
(mm)	(l/s)	(m^3/h)	Ø100	Ø125	Ø160	5	10	15	20	25	
1200	12,5	45	<20	<20	<20	246	334	424	521	630	1,5
1200	23,4	84	<20	<20	<20	279	376	478	589	714	2,8
1200	36,0	130	24	21	22	301	409	521	642	783	4,3
1800	25,9	93	<20	<20	<20	443	599	767	957	1179	3,1
1800	38,5	139	21	<20	21	469	637	815	1015	1254	4,6
1800	51,0	184	26	23	24	519	708	907	1129	1394	6,1
2400	34,3	123	21	<20	<20	594	804	1024	1271	1572	4,1
2400	51,9	187	23	20	20	643	873	1115	1382	1708	6,2
2400	71,1	256	28	25	24	673	915	1169	1454	1798	8,5
3000	46,0	166	26	20	<20	810	1103	1401	1711	2025	5,5
3000	71,1	256	35	27	24	868	1179	1501	1832	2173	8,5
3000	87,8	316	39	33	27	894	1219	1550	1890	2246	10,5

** The specified sound level is applicable to straight connection without duct bend and commissioning damper.*
Room attenuation = 5 dB.
***) = The water capacity is specified for a water flow of 0.05 l/s and can vary depending on the installation and how the ADC air deflectors are set.*
Detailed acoustic data can be obtained by sizing with Swegon's Single Product Calculator or Room Unit Design available at Swegon's home page: www.swegon.com.

Control equipment

Controls

Short description of how the product is controlled.

Control functions

Choose WISE CU when you wish to integrate PACIFIC as a CAV product in a WISE-system. Choose LUNA when you wish to use PACIFIC as a "stand-alone" and control the room temperature.

Controller, WISE CU

WISE CU with built-in pressure sensor and 2 inputs for WISE sensors which communicate over Modbus, it also features a general Modbus input/output for e.g. to accept pressure data from extra external pressure sensors. You can also connect sensors for the function, WISE dewpoint monitoring. When you choose a WISE CU, you can easily upgrade the CAV product in the future to a AWC with our upgrade kit).

Control equipment LUNA

To control the room temperature. Set point value is set on the controller, which is mounted on the wall. LUNA has four outputs to control heating and cooling actuators. The controller has a built-in temperature sensor and the possibility to connect an external temperature sensor. LUNA also has four inputs for condensation sensor or presence sensor.

When ordering LUNA control equipment, the Luna controller is delivered separately for wall mounting. If other installed accessories are ordered, for example, valves, actuators and condensation sensor, PACIFIC is automatically equipped with a control plate with terminal block, where the selected accessories are connected at the factory.

Figure 14. WISE CU

Figure 15. LUNA RC

Figure 16. LUNA RE

Comfort and commissioning functions

Anti Draught control (ADC)

ADC consists of a number of sections with adjustable fins arranged in the outlet of the unit. With a simple grip of the hand, the fins can be set to an appropriate angle to direct the discharge of air and in this way create the desired air distribution pattern.

The standard setting for ADC is straight but the unit can be supplied factory-preset to a V-shape distribution pattern, if desired.

The ADC is also included as standard feature.

K-factor settings

Having the entire airflow available for each product size simplifies project design and future layout changes, as airflows can be adjusted using an positioning lever.

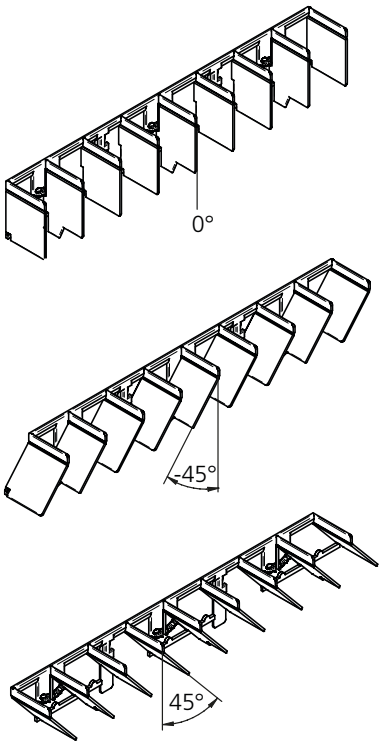


Figure 17. Detailed illustration of ADC

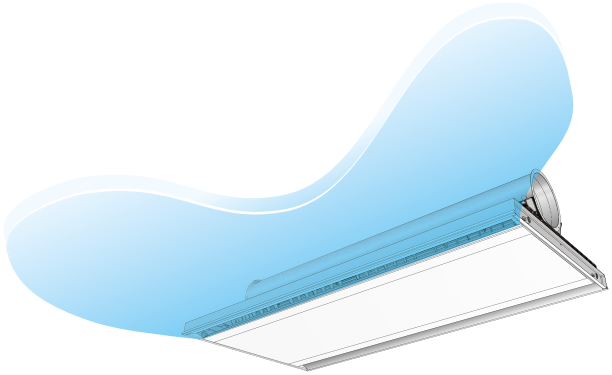


Figure 18. ADC set to the V-shape setting

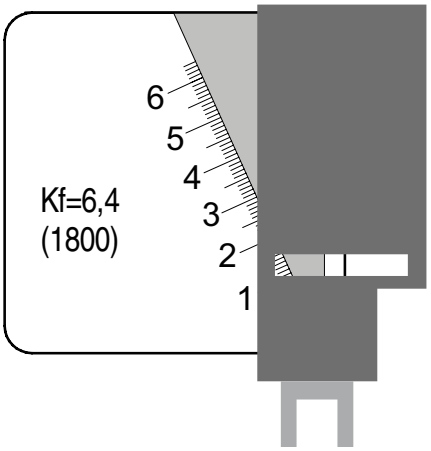


Figure 19. Adjusting the airflow using an positioning lever.

Installation, commissioning and maintenance

Mounting

The PACIFIC is supplied with four mounting brackets and self-tapping screws packaged separately and supplied with each unit. The pre-punched holes in each mounting bracket simplify the fastening work.

The mounting brackets are designed enabling them to be turned in any optional direction depending to suit type of suspension system selected. Turned inward, the mounting brackets offer simple installation by means of mounting strips. Turned outward, the mounting brackets work at their best for suspending the beams by means of size M8 threaded rods.

Mounting strips and threaded rods are not supplied with the unit. If assembly fittings are required, these can be ordered separately.

Connecting water

The water pipes are always placed on the product's short side. 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.

Recommended limit values

Max. recommended operating pressure:	1600 kPa
Max. recommended test pressure:	2,400 kPa
Min. permissible nozzle pressure:	50 Pa
Min. cooling water flow* Capacity module: L = 1,100; 1,600 mm:	0.03 l/s
Min. cooling water flow* Capacity module: L = 2200; 2,700 mm:	0.045 l/s
Min. permissible heating water flow*:	0.013 l/s
Increase in temperature, cooling water:	2-5 K
Decrease in temperature, heating water:	5-10 K
Min. permissible inlet flow temperature:	Should always be sized avoid condensation
Max. permissible inlet flow temperature:	60° C

* The min. recommended water flows ensure evacuation of any air pockets in the circuit.

Connection dimensions

Cooling (water):	Cu Ø 12 x 1.0 mm plain pipe end
Heating (water):	Cu Ø 12 x 1.0 mm plain pipe end
Air:	Ø125, 160 or 200 mm insertion joint
SA/EA module:	Spigot Ø160 mm

For detailed information about Installation, commissioning and maintenance, see PACIFIC IOM-manual and Operations & maintenance

Flush-mounted installation

The PACIFIC is designed for installation flush-mounted in the majority of false ceilings available on the market.

- T-bar with 600 mm c–c and plasterboard ceilings:
  Width: 594 mm
  Lengths: 1,194; 1,794; 2,394 and 2,994 mm
- T-bar with 600 mm c–c in combination with 100 mm wide strip grid systems, 1800 mm c–c
  Width: 594 mm
  Length: 1,715 mm
- T-bar with 625 mm c–c
  Width: 617 mm
  Lengths: 1242; 1867; 2,492 mm
- T-bar with 675 mm c–c
  Width: 667 mm
  Lengths: 1,342; 2,017; 2,692 mm
- T-bar with IP units (USA)
  Width: 23.7 inches (603 mm)
  Length: 47.8. 71.8, 95.8, 119.8 inches
  (1213; 1823; 2433; 3043 mm)
- Clip-in ceiling / sheet metal ceiling coffers 598 mm
  Lengths: 1,198; 1,498; 1,698; 1,715; 1,798; 2,398; 2,998 mm

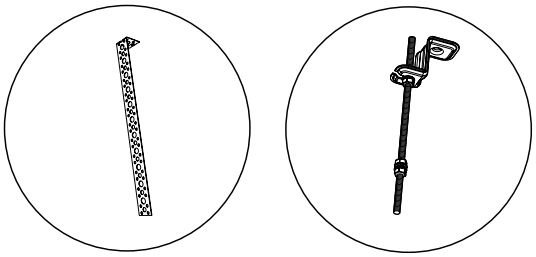


Figure 20. Suspension variant with mounting brackets and threaded rods respectively.

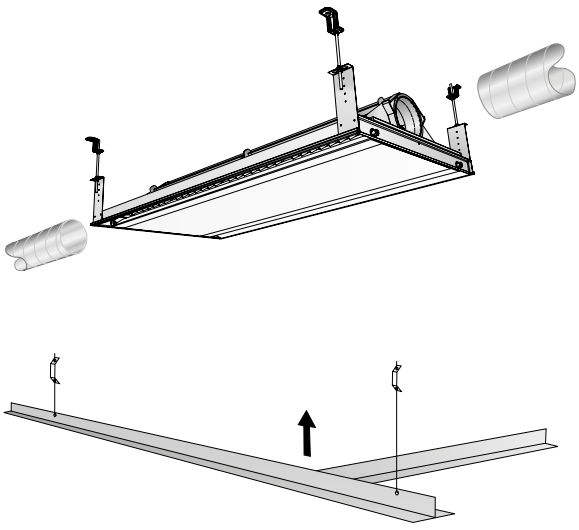
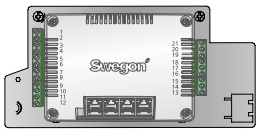


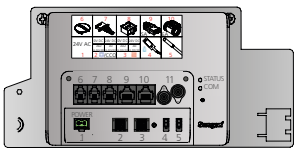
Figure 21. Installation of PACIFIC, here suspended by means of threaded rods.

Accessories, factory-fitted

URC1 Regulator
PACIFIC can be ordered with factory-fitted controller URC1



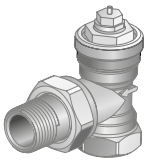
Controller, WISE CU
WISE CU with built-in pressure sensor and 2 inputs for WISE sensors which communicate over Modbus, it also features a general Modbus input/output for e.g. to accept pressure data from extra external pressure sensors. You can also connect sensors for the function, WISE dewpoint monitoring.



Valve, cooling & heating
Factory fitted valves for cooling and heating.

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

Unit	Function	Type	Dim.	K_v (m^3/h)
1200, 1800	Cooling/ heating	VEN115	DN15 (½")	0.10-0.89
2400, 3000	Cooling	VEN120	DN20 (¾")	0.31-1.41
2400, 3000	Heating	VEN115	DN15 (½")	0.10-0.89



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

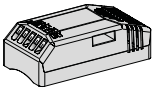
Actuator, cooling & heating, ACTUATORc 24 V NC
Factory fitted valve actuators for cooling and heating.

24V AC/DC, NC (Normally Closed).

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

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

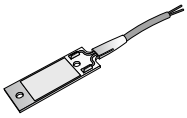
The dew-point is calculated from a temperature compensated RH element and an extremely accurate sensor element that is bound to the metal plate on the detector.



Condensation sensor, CG IV
The condensation sensor is supplied fitted and connected from the factory. The actual sensor element consists of a circuit board with gold plated conductive paths that react when condensation occurs between these. When condensation arises, the cooling valve closes the incoming water flow to the product. When the condensation on the conductive paths has been wiped off, the cooling valve is permitted to open again.

The sensor is positioned on the coil fins by the cooling supply.

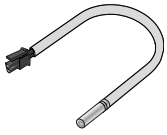
For more information about the condensation sensor, see the separate product data sheet on www.swegon.com.



Condensation guard, WISE Dew point regulation

The PT1000 sensor measures the supply temperature on water pipes in order to give the function WISE dewpoint monitoring.

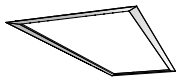
Note that other accessories that measure RH and temperature are needed in combination with the PT1000-sensor to realise this function.



Loose accessories

Plasterboard frame, PACIFIC T-FPB

Available in four sizes: 1194, 1794, 2394, 2994 mm



Coanda frame, PACIFIC T-CF

Available in four sizes: 1194, 1794, 2394, 2994 mm

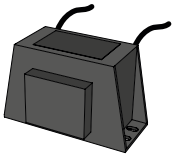
Transformer, Power ADAPT 20 VA (ARV)

Input voltage 230 V, 50-60 Hz, Output voltage 24 V AC
Power 20 VA, Enclosure IP33

Transformer, 30 VA

Transformer for the voltage supply of products.

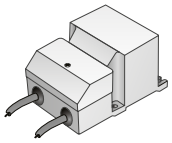
Protective transformer with Euro plug or WAGO,
Input voltage 230 V 50-60 Hz, Output voltage 24 V AC
Power 30 VA, Double insulation, Enclosure IP33



Transformer, SYST TS-1

Double-insulated protective transformer 230 V AC/24 V AC
Input voltage 230 V, 50-60 Hz, Output voltage 24 V AC,
Power 72 VA, Enclosure IP33

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

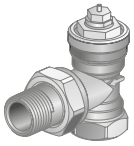


Valve, SYST VEN115 / SYST VEN120

Angle valves for cooling and heating.

VEN115 is preset fully open on K_v 0.89.
VEN120 is preset fully open on K_v 1.41.

Unit (m)	Function	Type	Dim.	K_v(m³/h)
1.2, 1.8	Cooling/heating	VEN115	DN15 (½")	0.10-0.89
2.4, 3.0	Heating			
2.4, 3.0	Cooling	VEN120	DN20 (¾")	0.31-1.41



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

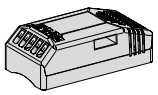
Valve actuator, cooling & heating, ACTUATORc 24V NC

Valve actuators for cooling and heating.

24V AC/DC, NC (Normally Closed).

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

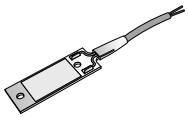
Condensation sensor SYST PCS



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 is bound to the metal plate on the detector.

Condensation sensor, CG IV



The condensation sensor's sensor element consists of a circuit board with gold plated conductive paths that react when condensation occurs between these. When condensation arises, the cooling valve closes the incoming water flow to the product. When the condensation on the conductive paths has been wiped off, the cooling valve is permitted to open again.

Sensor is positioned on the coil fins by the cooling supply.

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

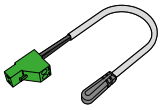
Card switch, SYST SENSO II

Key card holder for hotel rooms.

Assembly fitting, SYST MS M8

For installation use the assembly fitting containing threaded rods, ceiling brackets and nuts to all four mounting brackets.

Temperature sensor, T-TG-1



External temperature sensor. Used for example if the room temperature must be measured elsewhere than at the sensor module, or to measure the temperature of the main pipe in change-over systems.

Ordering key

The product is possible to order in multiple combinations between capacity modules, air modules and design modules. The rule is that the capacity module cannot be bigger than the air module, and the air module cannot be bigger than the design module. It is also possible to order a combination with SA/EA module, if the design module is at least 600 mm bigger than the air module.

See possible combinations for different false ceilings at the bottom of this page.

Product

Swegon's PACIFIC chilled beam for integrated installation in false ceilings or open plenums, for cooling, heating and ventilation

T-bar with 600 mm centre-to-centre

PACIFIC	d	aaaa-	bbbb-	cccc-	594-	ddd
Version						
Design module Length (mm): 1194, 1794, 2394, 2994						
Capacity module Length (mm): 1000, 1600, 2200, 2800*						
Air module: Length (mm) 1170, 1770, 2370, 2970*						
Width (mm): 594						
Connection, air: Ø125, 160 and 200 (mm).						

T-bar with 675 mm centre-to-centre

PACIFIC	d	aaaa-	bbbb-	cccc-	667-	ddd
Version						
Design module Length (mm): 1342, 2017, 2692						
Capacity module Length (mm): 1000, 1600, 2200						
Air module: Length (mm) 1170, 1770, 2370*						
Width (mm): 667						
Connection, air: Ø125, 160 and 200 (mm).						

T-bar with 625 mm centre-to-centre

PACIFIC	d	aaaa-	bbbb-	cccc-	617-	ddd
Version						
Design module Length (mm): 1242, 1867, 2492						
Capacity module Length (mm): 1000, 1600, 2200*						
Air module: Length (mm) 1170, 1770, 2370*						
Width (mm): 617						
Connection, air: Ø125, 160 and 200 (mm).						

** Not selectable for the SA/EA module*

Clip-in ceiling / sheet metal ceiling coffers

PACIFIC	b	aaaa-	bbbb-	cccc-	598-	ddd
Version						
Design module Length (mm): 1198, 1498, 1698, 1715, 1798, 2398, 2998						
Capacity module Length (mm): 1000, 1600, 2200, 2800*						
Air module: Length (mm) 1170, 1770, 2370, 2970*						
Width (mm): 598						
Connection, air: Ø125, 160 and 200 (mm).						

** Not selectable for the SA/EA module*

Possible combinations for false ceilings below

For design module in T-bar with 600 mm centre-to-centre

Design module	Air module	Capacity module
1194; 1794	1170	1000
1794; 2394	1770	1000, 1600
2394; 2994	2370	1000, 1600, 2200
2994	2970	1000, 1600, 2200, 2800

For design module in T-bar with 625 mm centre-to-centre

Design module	Air module	Capacity module
1242; 1867	1170	1000
1867; 2492	1770	1000, 1600
2492	2370	1000, 1600, 2200

For design module in T-bar with 675 mm centre-to-centre

Design module	Air module	Capacity module
1342; 2017	1170	1000
2017; 2692	1770	1000, 1600
2692	2370	1000, 1600, 2200

For design module in Clip-in ceiling and sheet metal ceiling coffers

Design module	Air module	Capacity module
1198; 1498; 1698; 1715; 1798	1170	1000
1798; 2398	1770	1000, 1600
2398; 2998	2370	1000, 1600, 2200
2998	2970	1000, 1600, 2200, 2800

Range of products held in stock

As PACIFIC is always supplied with a cooling/heating coil, even in cases when only a cooling coil has been ordered, the stocked product covers both cooling and cooling/heating.

Article number	Product description
82228012	PACIFIC d 1794x594-125-SP
82228013	PACIFIC d 2394x594-125-SP
82228014	PACIFIC d 2994x594-125-SP

Choose from several factory mounded accessories in Single Product Calculator or Room Unit Design

Additional module	SA/EA module
Supply and extract air module SA/EA	

Extract air register	PACIFIC d T-EA-EXC
EXC Extract air register	

Accessories

Assembly piece	SYST MS	aaaa-	b	M8
Length, threaded rod (mm) 200; 500; 1000				
1 = One threaded rod 2 = Two threaded rods and a thread lock				

Plasterboard ceiling frame	PACIFIC T - FPB	aaaa
Length (mm) 1194, 1794, 2394, 2994		

Coanda frame	PACIFIC T - CF	aaaa
Length (mm) 1194, 1794, 2394, 2994		

Flexible hoses *See separate product sheet "FH"*	FH	aaaaaa	bbb	cccccc
Coupling A				
Length (mm)				
Coupling B				

Specification text

Example of specification text according to VVS AMA
QLC.11 Active Chilled Beam

Manufacturer: Swegon

Type: PACIFIC d CAV

Active chilled beam with the following functions:

- Air- and water-based chilled beam for comfort cooling and heating.
- Constant air volume (CAV).
- Induction-based operation for efficient heat and cooling transfer.
- Integrated waterborne heat exchanger.
- Integrated air diffuser for even air distribution and draught-free comfort.
- Modular design to suit room-specific requirements.
- Possibility to upgrade to VAV and DCV functionality.
- Easy adjustment of airflow if requirements change.
- Factory preset airflow.
- Eurovent certified (verified cooling capacity in accordance with EN 15116).
- Available in a wide range of colours and gloss levels.
- Suitable for most suspended ceiling systems.
- To be installed in suspended ceiling or as exposed installation according to drawings.
- Installation shall be carried out to allow access for service and cleaning.
- Lengths:1200–3000 mm
- Colour: RAL 9003 Signal White, gloss level 30 ±6%
- Nominal lengths: 600, 1200, 1800, 2400, 3000 mm
- Nominal width: 600 mm
- Height: 198 (ø125), 244 (ø160), 299 (ø200) mm
- Air connection: ø125, ø160, ø200 mm
- Water connection: Plain pipe end Cu Ø12 × 1.0 mm
  Alternative: External thread DN 15 (applies to factory-mounted valves)

Accessories:

- Control equipment, see Single Product Calculator or Room Unit Design at Swegon's website: www.swegon.com
- Flexible connection hose, FH-aaaaa-bbb-ccccc xx pc.
- Assembly piece SYST MS aaaa - b - M8 xx pc.
- Plasterboard frame, PACIFIC T-FPB aaaa xx pc.
- Coanda frame, PACIFIC T-CF aaaa xx pc
- Valve actuator, ACTUATORc 24V aa-bb, xx pc.
- Valve actuator, ACTUATORc 0-10V AC/DC aa, xx pc.
- Valve, SYST VEN-bbb, xx pc
- Venting nipple SYST AR-12 xx pc.
- Condensation sensor SYST PCS, xx pc.
- Condensation sensor SYST CG-IV, xx pc.
- Transformer, SYST TS, xx pc
- Extract air register, EXC, PACIFIC d T-EA-EXC, xx pc.