

POWER. ANYTIME. ANYWHERE.

YOU GOT THE
POWER.



AIRPORT TECHNOLOGIES

AIR POWER

Pre Conditioned Air Power Unit



 **HITZINGER**[®]
A Member of Dr. Aichhorn Group

RETHINKING PRECONDITIONED AIR SUPPLY

As a leading expert in the field of airport technology, it is our commitment to fully understand our customer needs and ensure the highest level of product standards in the fields of pre-conditioned air supply. The AIR POWER solution of HITZINGER is engineered in a manner that fulfils the latest industrial requirements and emphasizes the significant advantages for our customers.

ADVANTAGES USING HITZINGER PCA TECHNOLOGY

- Most efficient unit in the market
- Highest passenger comfort
- Green and environmental friendly
- Innovative and reliable components
- Lightest unit due to full aluminium design



CUSTOMIZATION

HITZINGER PCA SOLUTIONS

The dynamic style of HITZINGER pre-conditioned air units, reflect innovation and technological know-how that give the product its unique and very modern look. Our flexibility allows customized PCA Solutions which are combineable with hot or cold water chilled coils and can be either mounted on a PBB (1), stationary below (2) or close to the PBB available as mobile towable Version.

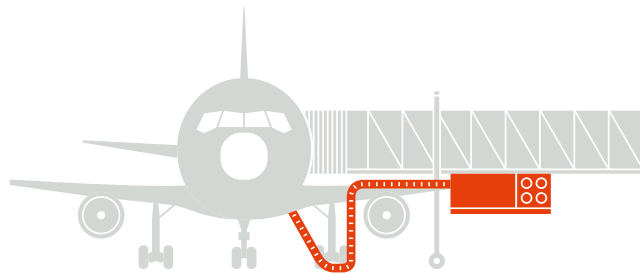
The combination of an aluminium light-weight construction and the use of energy efficient components supports our general understanding of reduction of total costs of ownership.

With our modular concept we maintain our general perception of modularity which allows an easy installation, quick accessibility for maintenance purposes and reduced inventory of spares.

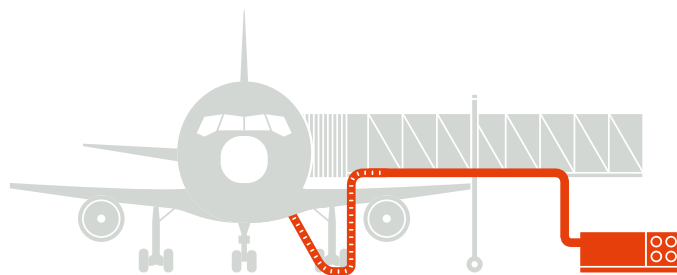


STANDARD EQUIPMENT

- Full aluminium containment
- Noise protection arrangement
- Energy efficient EC motors for external fans
- VSD technology for blower and compressor
- IE3 blower motor
- Two levels of filtration for optimum air quality, G4 and F9 filters
- 4 condensation compressors for all units
- Scroll type compressor with electronic expansion valve
- Various air temperature, humidity, pressure and air flow sensors
- Remote control via user-friendly touch panel



1 AIR POWER, Passenger Boarding Bridge Version



2 AIR POWER, Stationary Version

SETTING NEW STANDARDS

HIGHLIGHTS OF HITZINGER AIR POWER PCA

With its AIR POWER, HITZINGER presents a new standard of pre-conditioned air generation for all aircraft during the flight preparation phase. Optimized energy efficiency and the highest level of pressurized air flow, in combination with maximum serviceability and simplified operation makes the AIR POWER the preferred choice for PCA units.



EFFICIENCY

By using innovative high end equipment such as our tandem compressor design, low operational costs and maximum energy savings all year round are guaranteed and set a new pace in the area of efficiency.

Due to our variable speed drive technology (VSD), we are able to provide a constant air flow pressure and an optimum level of cooling vs. energy efficiency.

All this makes the AIR POWER PCA the most efficient on the market.



GREEN AND SUSTAINABLE

Designing an ecological and efficient product are essential to make our contribution for future generations.

98% recycable components of our AIR POWER unit and refrigerant R410A having an ozon depletion potential of zero are key factors for it.

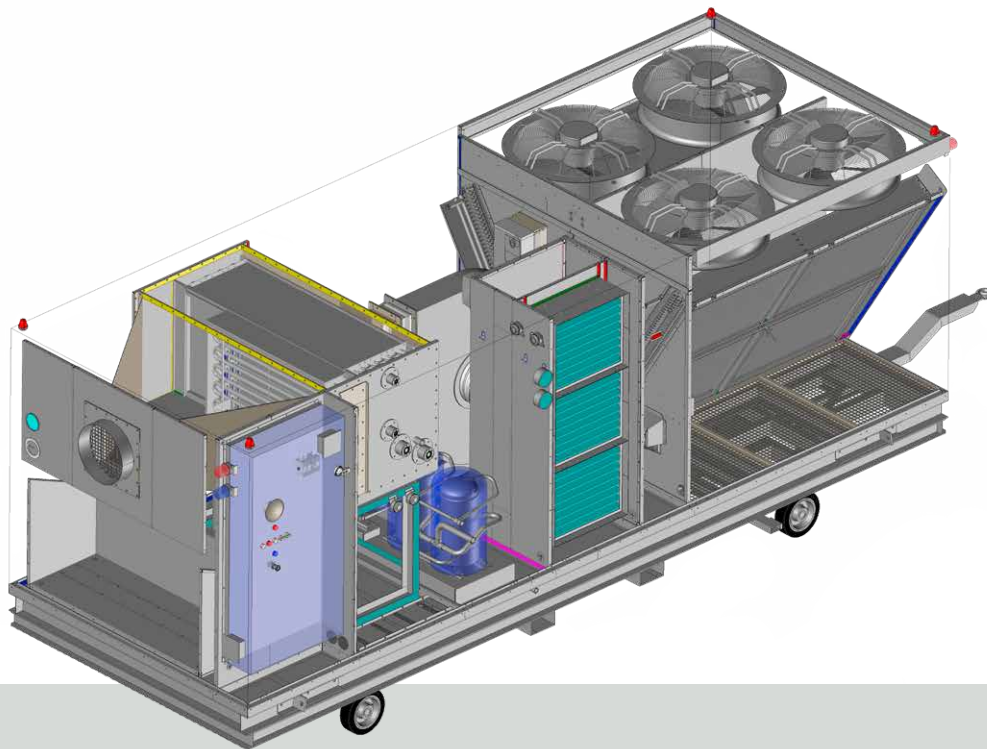


RELAUNCHING TRAVEL COMFORT

Breathing clean and fresh air is a basic need for passengers. Two levels of filtration technology (G4 + F9) in combination with maximum air flow generated by an innovative blower fan design helps to fulfil this desire.

Noise protection arrangements insulates this soundless unit down to 72 db(A) and underpins a smooth way of passenger travelling comfort.

AIR POWER



MAINTENANCE FRIENDLY

Our aim is to avoid unessential maintenance work by using durable and proven solutions. In case service is required, easy access due to our modular design is guaranteed and a quick analysis with our remote controlled touch panel helps to identify problems.

Solutions such as condensation entrainment or a light aluminium frame with a 20 yrs guarantee against corrosion further helps to significantly reduce overall costs and downtime of the PCA.



SERVICE AND AFTER SALES

Working together, the team from Hitzinger will engineer the best solution, taking all aspects into consideration to satisfy your requirements.

As service oriented company, Hitzinger is always a dedicated Partner. With a highly skilled workforce available when needed, whether it comes to quick troubleshooting, support on site, or long term service contracts.



SMART AND RELIABLE

High-end EC motors with inverters are in use to get the most efficient setting. By that up to 25% energy savings can be obtained compared to inefficient AC motors.

The electronic expansion valve of our scroll compressors optimizes the refrigeration cycle efficiency and further reduces energy consumption.

The Hitzinger AIR POWER PCA is engineered to combine lots of small advantages into one smart and reliable unit.

TECHNICAL SPECIFICATION

MAIN FACTS, OPTIONS AND STANDARDS

	AIR POWER PCA 185	AIR POWER PCA 285	AIR POWER PCA 485	AIR POWER PCA 685	
MAIN FACTS	Aircraft classification	A/B	B/C	C/D/E	C/D/E/F
	Air flow rate (kg/s)	0,3-0,6	0,9-1,2	1,5-2,5	2,5-3,75
	Pressure (mBar)*	55	55	75	75
	Cooling capacity (ton)**	12,5	25,1	52,4	78,9
	Cooling capacity (kW)**	44	88	184	277
	Heating Capacity (kW)	4,5	48	81	120
	Operating temperature (C°)	-30 to +55***			
	Power supply	3x400 V - 50/60 Hz****			
	Electrical power requirement (A)	75	125	250	400
	Discharge outlet temperature	sub-zero temperature with boost option, subject to ambient condition (temperature & humidity) and air flow			
DIMENSIONS & WEIGHT	Weight (kg)	1107	2140	2800	3460
	Length (mm)	3464	3400	5800	6800
	Width (mm)	1465	2200	2100	2100
	Height (mm)	1580	1950	1950	1950
OPTIONS	Additional humidity sensor for supply air duct Sump pump for condensation water Additional hot or chilled water coil Supply air flow rate control (pressure control) Cabin temperature sensor Heating Mode		Remote communication module Customized Skydrol painting in any RAL colour Hose basket at the rear of the machine Anti-collision lights mounted on the roof of the unit Warranty Extension		

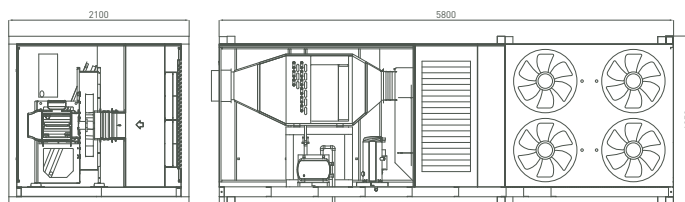
* values acc. to the aircraft manufacturer – can be adapted

** nominal cooling capacity designed at 35 °C / 40 % RH with refrigerant R410A

*** cooling capacity depends on outside conditions and supply air flow, exact values will be specified during tender stage

**** other voltages or frequencies available upon request

Schematic drawing of PCA 485



- 1 A321 - Tianjin
- 2 A350 - Toulouse

STANDARDS

- AHM 973 (IATA) – Specification for a towed aircraft ground heater
- AHM 974 (IATA) – Specification for aircraft air conditioning unit
- AHM 997 (IATA) – Specification for sub-freezing aircraft air conditioning unit
- ISO6858 – Aircraft ground support electrical supplies
- BS 2G 219 – General requirements for GSE
- EN60204-1 – Safety of machinery
- EN61000-6-4 – Electromagnetic compatibility (EMC)
- EN12312-17 – Specific requirements for air conditioning equipment
- EN12312-20 – Specific requirements for electrical ground power units
- EN1915 -1/-2 – Aircraft ground support equipment, general safety requirements



FOR OVER 70 YEARS, QUALITY, EFFICIENCY, AND DURABILITY HAVE BEEN THE FOUNDATIONS OF OUR SUCCESS. COUNTLESS INDUSTRIES THROUGHOUT THE WORLD PLACE THEIR TRUST IN US TO PROTECT AND POWER THEIR BUSINESSES AT EVERY MOMENT OF EVERY DAY. AS A WORLD LEADER IN TAILOR-MADE POWER SOLUTIONS, WE ARE YOUR PARTNER FOR INNOVATION, VALUE AND SERVICE. WE ENSURE THAT YOU'VE GOT THE POWER.

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