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Tested and Certified product quality



By TÜV for safety of appliances.



Wolf appliances correspond to the safety-guidlines for machinery.



EUROVENT Certifikation no. 99-10-015-



Wolf appliances are produced according to DIN EN ISO 9001, which refers to quality assurance of air handling units regarding DIN EN ISO 9001 production and service.



Clean room technology WK-HY. These units are officially tested by Hygiene- Institute Gelsenkirchen/Germany.



Wolf holds the necessary approval with DVGW - quality sign for installing directly fired warm air heaters (WLE-DIN 4794) with gas burners.



For the installation of directly heated warm air heaters (WLE-DIN 4794) with oil burners we are registered in the regulation list for buildings, established by TÜV Building and Operation Technology Bavaria, reg. association.



Air Conditioning Technology

Air conditioning units for indoor-installation

30 mm / 60 mm casing



Rate of air flow: 800 - 450 000 m³/h

Air conditioning units for outdoor-installation

35 mm / 65 mm / 95 mm Verkleidung One of the world's best weatherproof air conditioning units



Rate of air flow: 800 - 450 000 m³/h

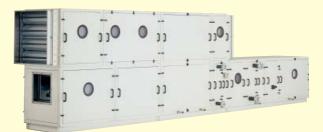
Hygiene-clean room technology

30 mm / 60 mm casing System: Hygiene: WK-HY Hygiene technology



WK-HY released by the Hygiene-Institute of the Ruhr-distrikt, Gelsenkirchen





The innovative Hygiene-RLT-Unit by Wolf Geisenfeld sets new benchmarks in hygiene-and clean room technology. Some examples for application:

- Medical field
- Laboratory techniques
- Clean room-technology
- Pharmaceutical industry
- Food production
- Computer-, micro-chips industry
- Bio-technology
- Chemical industry





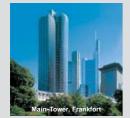
Free running fan blade (V-belt-drive, alternatively) extractable and completely removeable. Each in-built modul (fan, heater, cooler, filter, etc.) can be pulled-out to provide optimal cleaning and disinfection works.



- Internal sides absolutely smooth
- Optimized constructional shaping
- each part extractable
- Quality approved by certificates and testreports



- Inner tray special steel (alternatively galvanized)
- Outer tray galvanized
- Special closures









Hotel chains: Maritim Hotels Bremen, Stuttgart, Ulm, Bonn; Ibis, Sheraton, inski. Holiday Inn Hotels, a.s.o.



Casing wall thickness	30 mm	60 mm
1. Casing stiffnes		
Casing class	1A / 2A	1A
at test pressure (Pa)	-1500 bis -400	-1500
Casing class	1A	1A
at test pressure (Pa)	125 bis 780	+1500
2. Casing leakage: Casing class		
at test pressure (Pa) -400	B	В
at test pressure (Pa) +700	В	В
3. Filter-bypass-leackage: Highe	st applicable filter class	
at test pressure (Pa) - 400	F 9	F 9
at test pressure (Pa) +400	F 9	F9
4. Heat loss through walls		
heat transition		
coeffzient Ua	1,702 W/m²K	1,78 W/m²K
Casing class	T 4	T 4
5. Thermal bridges of casing		
thermal bridge factor	0,39	0,41
Casing class	TB 4	TB 4

Casing wall thickness	65 mm	95 mm
1. Casing stiffnes		
Casing class	1A / 2A	1A
at test pressure (Pa)	-1500 bis -400	-1500
Casing class	1A	1A
at test pressure (Pa)	125 bis 780	+1500
2. Casing leakage: Casing class	-	
at test pressure (Pa) -400	В	В
at test pressure (Pa) +700	В	В
3. Filter-bypass-leackage: Highe	est applicable filter class	
at test pressure (Pa) - 400	F 9	F 9
at test pressure (Pa) +400	F 9	F 9
4. Heat loss through walls		
heat transition	I	
coeffzient Ua	0,976 W/m²K	0,856 W/m2K
Casing class	T 2	T 2
5. Thermal bridges of casing		
thermal bridge factor	0,65	0,65
Casing class	TB 2	TB 2



Cooling Technology

Cooling Appliances for Indoor Installation

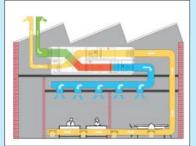
Air conditioning unit with superposed cooling and secondary refrigeration device (air cooling)



Cooling Appliances for Outdoor Installation

(Air cooling)



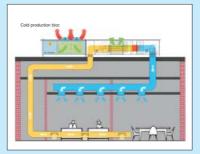


Superposed adiabatic cooling
For the first time a plate heat exchanger with softcooling allows operation of a heat-recovery system
installed in ventilation and conditioning units for
heating in the winter as well as for cooling in the
summer.

Secondary refrigeration device Direct cooling (air-cooling)

The advantages of this combination=superposed adiabatic cooling with secondary direct cooling are:

- Reduced refrigeration medium
- Lower investment costs (double practical application: (summer / winter)
- Lower electrical power consumption



ting cooling plants is compact and weather-proof,

suitable for installation outdoors. Cooling techno-

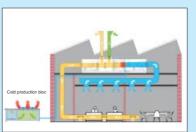
suitable for installation outdoors. Cooling technology is completely integrated in the centre part. Lavishly sound insulation measures at the compressor part as well as the slowly revolting condenser fan guarantee low noise operation, anti-harmful to the environment. Production and initial operation are being done according to the Wolf-Geisenfeld quality features DIN EN ISO9001 and VDI (Association of German Engenieers)- guide lines. Since there is no necessity of installing a cold water plant (pipe lines, insulation, pumps, valves) and due to the direct evaporating technology, the investment cost for the cooling plant are considerably low.



Complete refrigeration plant with semi-hermetical condenser, appropriate for continously adjustable output regulation of revolutions, with collector for refrigeration medium refrigeration dyrer, inspection glass, high and low pressure push switch, oil pressure push switch, winding-thermo-protected switch for compressor.



Switch control box for DDC (direct digital control) controlling means and cooling plant. A computer processes data from the input unit and transmits instructions to the output unit. It collects, calculates, optimizes, switches and maintains all data of the cold production bloc



Split Construction

Ventilation centres for indoor installation (split construction) are being connected to the external placed, low noise running cold production bloc by CU (copper)-pipes.

Reasonable pressure conditions in the refrigeration cycle, advantageous part-load ratio and the omission of cold water pumps together effect lower (approx. 15%) consumption of electrical energy than in usual "cold water plants". Refrigerating mediums are either HFKW (FFC 134a, R 407c)) or HFCKW (R22), partly chlorinated

Refrigeration mediums are HFKW (FFC (134a, R 407c))





Sports grounds: Max-Schmeling-Hall, Berlin, Ulrich-Haberland-Stadium Leverkusen, Bördeland-Hall, Magdeburg a.s.o.





Amusement Parks / Leisure Concert-Hall, Bochum; Sea Water Pool, Dangast, a..s.o.



Fair centres/Movies: Fair Palace Leipzig; Fair-centre Leipzig; Movie-centre, Düren Movie-centre "Colosseum"; Berlin, a.s.o.









Air heating

Air-Heater WD-A

Heating capacity: 5 - 216 kW





Cassette-Air-Heater ZD-A multi

Heating capacity: 2,9 - 32,2 kW









Ceiling-Air-Heater / Cooling FB-A de luxe

Heating capacity: 6,5 - 68 kW





Warm-Air-Heater WLE

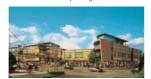
Heating capacity: 35 - 1163 kW







Shopping centres: Rotmain-centre Bayreuth; Blautal-Centre Ulm; Westpark Ingolstadt





Train stations: Main station, Leipzig: AD-Trans; German Railway; German Railway Cargo, Mainz; Railway guiding centre Karlsruhe



circulating air