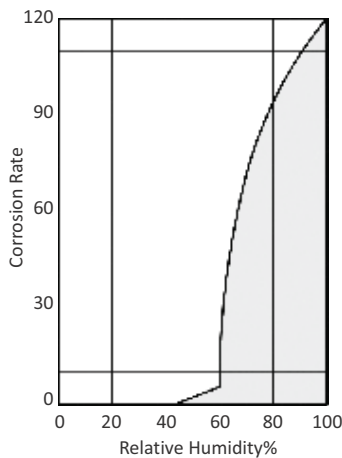


Temperature Control



8- AQUA INDOOR POOL DEHUMIDIFIER

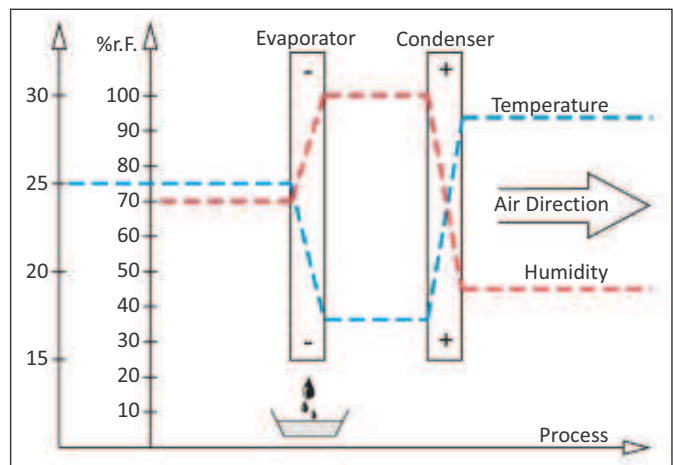
- Clear Windows, Dry Walls: No more foggy windows or condensation on walls in the pool room with AQUA dehumidifiers preserve the construction integrity and gives a pleasant feeling to the room occupants.
- Simple Installation: Can be free standing or remote. It is also duct ready, the control can be easily made in a 220 volts wiring.
- Quality Construction & Reliability: AQUA dehumidifier comes in white coated anti-humidity paint or in stainless steel body, Digital LCD controller & gas pressure gauge. The unit is covered under a 5 year warrantee.
- Low Electrical Cost: AQUA dehumidifier utilizes a refrigeration system that requires a smaller electrical load.
- Humidity Control: Stabilize room conditions through dehumidification, this reduces the maintenance cost of the room and gives a very pleasant environment to the pool room.
- Indoor Pool Room Heating: Recovering energy from the dehumidification process will often heat an entire pool room for the cost of operating the dehumidifier alone.
- Indoor Pool Room Cooling: An optional remote condenser will allow the DCA system to cool the pool room during the warm months.
- Easy to Maintain: The AQUA dehumidifier system is a closed loop system with nothing to oil or lubricate. Simple return air filter maintenance is all that is needed.



Air dehumidification

The correlations occurring when air is dehumidified are based on physical laws. These are depicted here in graphical form in order to provide you with a brief overview of the principles of air dehumidification.

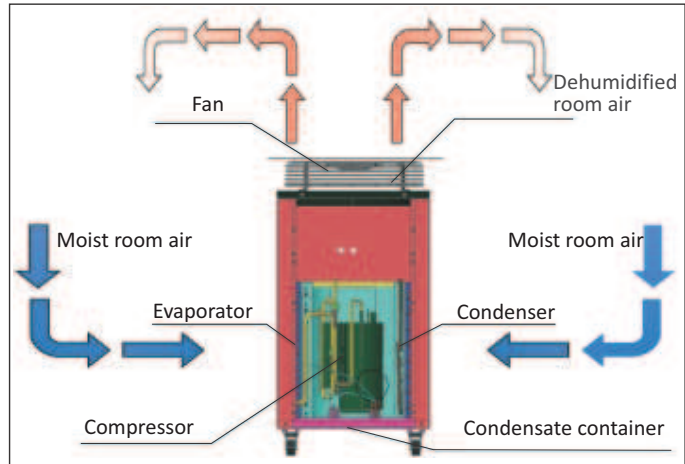
| Temp. | Water vapour content in g/m ³ at humidity of | | | |
|-------|---|------|------|------|
| C | 40% | 60% | 80% | 100 |
| -5 | 1.3 | 1.9 | 2.6 | 3.3 |
| +10 | 3.8 | 5.6 | 7.5 | 9.4 |
| +15 | 5.1 | 7.7 | 10.2 | 12.8 |
| +20 | 6.9 | 10.4 | 13.8 | 17.3 |
| +25 | 9.2 | 13.8 | 18.4 | 23.0 |
| +30 | 12.9 | 18.2 | 24.3 | 30.3 |



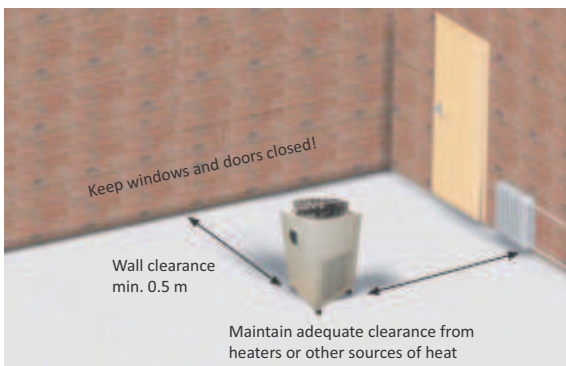
As it flows through or over the evaporator the air stream is cooled to dew point. The water vapour condenses, and is collected in a condensate trap from where it is drained off.



Drain the condensate into a lower lying drain



Schematic depiction of the workings of a AQUA air dehumidifier



| | | DH-2 | DH-4 | DH-6 | DH-15 |
|---|-------------------|---------------|---------------|---------------|---------------|
| OPERATING RANGE, TEMPERATURE | C | 3-32 | 3-32 | 3-32 | 3-32 |
| OPERATING RANGE, HUMIDITY | % RH | 40-100 | 40-100 | 40-100 | 40-100 |
| DEHUMIDIFICATION CAPACITY MAX. | l/h | 2.2 | 4.1 | 6.2 | 15.2 |
| AT 30 C/80% RH | l/h | 2.0 | 3.9 | 6.0 | 15.0 |
| VENTILATION CAPACITY MAX. | m ³ /h | 400 | 1000 | 2800 | 4500 |
| CONDENSATE DRAIN SIZE | mm | Φ20 | Φ20 | Φ20 | Φ20 |
| COMPRESSOR/CONDENSER | Configuration | Rotary | Rotary | Rotary | Scroll |
| REFRIGERANT | Freon | R22 | R22 | R22 | R22 |
| REFRIGERANT QUANTITY | g | 450 | 900 | 1400 | 2400 |
| POWER SUPPLY | V/Hz | 220~240/1~/50 | 220~240/1~/50 | 220~240/1~/50 | 220~240/1~/50 |
| MAX. RATED POWER CONSUMPTION | A | 3.4 | 6.9 | 10.5 | 8.1 |
| MAX. POWER CONSUMPTION | kW | 0.76 | 1.53 | 2.3 | 2.3 |
| AT 20 C/70% RH | kW | 0.53 | 1.1 | 1.7 | 6.2 |
| CUSTOMER-PROVIDED ELECTRICAL PROTECTION | A | 16 | 16 | 16 | 40 |
| DEFROSTING | Automatic | Hot gas | Hot gas | Hot gas | Hot gas |
| SOUND PRESSURE LEVEL LPA 1m* | dB (A) | 45 | 49 | 49 | 53 |
| DEPTH | mm | 280 | 490 | 490 | 770 |
| WIDTH | mm | 960 | 490 | 490 | 770 |
| HEIGHT | mm | 520 | 950 | 950 | 995 |
| HEIGHT INCL. TRANSPORTATION BRACKET | mm | 600 | 1040 | 1040 | 1090 |
| WEIGHT | kg | 46 | 50 | 55 | 165 |
| PACKING | | 1 | 1 | 1 | 1 |

* Noise level measurement DIN 45635 - 13 - KL 3