



MultiaquaTM



Welcome to



All Multi aqua products are designed with the future in mind. That's why all our air conditioning chiller products are flexible, which makes it easy to adapt to virtually all kinds of building applications.

Whether it's residential or commercial air conditioning needs, Multi aqua has the product to meet or exceed all expectations.

At Multi aqua, our commitment to creating innovative air conditioning products has made us one of the most respected organizations in the industry.

From concept to market, Multi aqua takes a hands-on approach to ensure that each and every step meets our stringent standards of quality, durability, and dependability.

VVV[®] Commercial & Residential Variable Water Volume AC Systems

One of the unique benefits of Multi aqua is the fan coil selection.

Multi aqua can be matched with any one, or a multiple of, hydronic fan coils as listed and schematically presented on this page.

- Cassette
- Universal Mount
- Hi-Wall
- Multi-position Ducted Air Handler
- Cased Hideaway



MHRC2
Chiller



Hideaway
Fan Coil



Universal Mount
Fan Coil



MAC Chiller



Multi-position Ducted
Air Handler



Hi-Wall Fan Coil



Cased Fan Coil



MHCFC4W Ceiling
Cassette

The Chillers



Application Features and Benefits

Hydronic systems offer many features and benefits:

- **No Refrigerant Handling** - No need to charge with refrigerant. The closed refrigerant system does away with the need for installation technicians that are certified to handle refrigerants. Since there are no refrigerant lines, installation costs are lower vs standard split systems.
- **No Ductwork** - Cooling with Multiaqua means running small, flexible, water pipes into the space within the walls, without giving up hundreds of square feet of useable or living space to ductwork.
- **0% Duct Loss** - with water lines carrying the cooling capacity. This is a more efficient unit delivering rated capacity to all of the conditioned spaces, day after day.
- **Zoned Cooling** - With Multiaqua fan coils, you only condition the spaces you designate as opposed to a traditional central system. This fact allows for diversity and load shifting when doing load and sizing calculations, initially reducing installed cost as well as operating costs for years to come.
- **The Multiaqua Chiller** - contains a Copeland Scroll compressor; simply the most efficient, quiet, reliable compressor available.



MAC 36/48/60
Chiller



MAC 120HE
Chiller

- **Multiaqua** is an air-cooled hydronic system designed to satisfy the requirements of the global, residential, and commercial markets including, but not limited to, new construction, retrofit, add-on, process, and hydronic market segments.
- Our chillers are available in 3, 4, 5, and 10-ton cooling capacities and are matched with a variety of indoor fan coils, unsurpassed in application flexibility.
- Multiaqua is a self contained unit with no add-on modules or additional assembly required. Multiaqua is designed with great care to provide easy service access and readily available components.

Hydronic Fan Coils



CFFWA

CFFWA - The Universal Mount Fan Coil provides the greatest flexibility in satisfying your heating and cooling needs. The CFFWA may be installed on the floor, low on the wall, or horizontally on the ceiling, without internal modification. The unique and popular design style is available in capacities of 12,000 - 60,000 BTU/h. It is also available in 4-pipe configurations with model number **CFFWA4P**.



MHWW

MHWW - These Hi-Wall Fan Coils are specifically designed for unobtrusive, quiet operation in smaller zone applications. The MHWW provides a seamless appliance appearance in either residential or commercial application. These Hi-Wall mounted units are available in 9,000 to 36,000 BTU/h, 208/230V and 120V capacities. These units include washable air filters, a remote, and ductless mounting.



MHQWW

MHQWW - This latest model Hi-Wall gives our classic MHWW a modern, sleek appearance that lends itself to a more contemporary design. These ductless Hi-Wall mounted units are available in 9,000 to 36,000 BTU/h and 208/230V and 120V capacities. The unit includes a wireless infrared remote controller, wall mounted receiver, and washable filters. The unit is also capable of operating on any 24 volt thermostat.



CWA

CWA2 - A traditional, central - ducted type air handler. This vertical or horizontal air handler can be tied into the ductwork of the existing heating or cooling system. This configuration also lends itself to add on where additional cooling load may be required. Available in 18,000 to 60,000 BTU/h and 208/230V or 120V capacities. 5kW - 20kW electric heat available in 2-pipe models. It is also available as a 4-pipe with model number **CWA4**.

Hydronic Fan Coils



MHCCW

MHCCW - This 2-Pipe Hideaway Fan Coil design removes the equipment from the space and lends itself to drop-ceiling applications. This design is a time-proven, widely accepted configuration. Available in 9,000 BTU/h through 36,000 BTU/h and 208/230V or 115V capacities. This unit is also available in a 4-pipe configuration under model number **MHNCCW** in both 208/230V or 115V.



MCFCW

MCFCW - This 2 or 4-pipe configurable, heating/cooling, ductless Cased Ceiling Concealed Fan Coil is available in 12,000 - 60,000 BTU/h and 208/230V. These Cased Hideaways have a high static and low static option with 3 speed, direct drive, PSC type fan motors. With the high static model, these units can be ducted and will accommodate up to .5" of external static. All components are wired to an internal terminal block to allow for a field installed 24V thermostat and/or fan speed control.



MHCFC4W

MHCFC4W - This 2 or 4-Pipe configurable, heating/cooling, ductless Ceiling Mount Cassette Fan Coil is available in 208/230 volts and from 12,000 to 48,000 BTU/h. This unit is internally and externally insulated to ensure quiet operation. This unit comes with a washable filter and 3 speed, direct drive, PSC type fan motors.



MH1WC4W

MH1WC4W - This unit is a 2 or 4-Pipe configurable, heating/cooling, ductless, Ceiling Mount Hydronic Cassette Fan Coil that is available in 208/230V. This unit is available in 9,000 to 24,000 BTU/h. The unit is internally and externally insulated to ensure quiet operation. Both coils in this unit are equipped with manual air bleed ports which drain into the unit's internal drain pan. This unit comes with the washable filter and 3 speed, direct drive, PSC type fan motors.

The Heat Recovery Chiller

The MHRC2 & MHRC-AE

Multiaqua's MHRC2 and MHRC-AE (Alternative Energy) models will allow you to capture 100% of the refrigeration process waste heat that is normally rejected to the air. The unit will operate in dedicated cooling, dedicated heating, water to water, or simultaneous heating and cooling (SHC) modes. It does not have to be in the cooling mode to make heat. Besides harvesting compressor heat, the MHRC2 and MHRC-AE models also have the ability to remove heat from the outdoor ambient air and put that heat into the hot water side as required. With this new innovative system, you can cool your rooms as well as heat showers, sinks, or a swimming pool with the same outdoor unit, thereby eliminating the need for, and cost of, traditional water heating methods.

- **The MHRC2 and MHRC-AE** models come standard with BAS/BACnet compatibility. All functions can be addressed and adjusted remotely, including software updates.
- **The MHRC-AE** has the ability to be fitted with field installed solar inverters. This will allow you to operate the chiller completely off grid or behind the meter in grid tied applications.



MHRC-AE
Heat Recovery Chiller



MHRC2
Heat Recovery Chiller

VRFW[®] Commercial & Residential Variable Refrigerant Flow to Water

- **Multiaqua's VRFW System** resolves the compliance issues that asian designed VRF systems have with ASHRAE 15 and 34. We are able to accomplish this by keeping the refrigerant circuit outside of the structure.



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