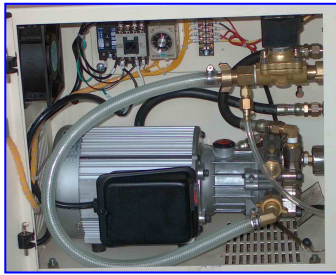




HIGH PRESSURE NOZZLE SYSTEMS

Coldmist Cooling is designed to operate where conventional air conditioning is not practical, possible or simply too expensive. As a derivative of the climate control systems used in livestock cooling applications such as chicken houses, piggeries and dairies, the design incorporates the injection of water under high pressure through specially designed and patented nozzles. The resultant finely atomized 5 micron water droplets, when introduced into the surrounding air effectively flash evaporate and cool the contacted air. With correctly applied methodology a temperature **reduction of up to 10-12° C is achieved** with virtually no increase in humidity. As our partners, we have chosen the Danish company SKOV, international suppliers of highly specialized climate control components.

The heart of the system revolves around the unique patented **FLEXCLAMP** nozzle system which allows for **easy installation** without the requirement for special tools making it ideal for self installation resulting in reduced costs. All components, from the stainless steel tubing, pipe joiners, fans and high pressure pumps are of the highest quality ensuring maximum reliability and efficiency.



LIGHT DUTY PUMP UNIT



FLEXCLAMP



PATIO KITS

The system can be removed and re-installed into different premises should you be moving and dependent on size, can be supplied for 240v or 415v operation. Used across a broad spectrum of applications and industries, the **COLDMIST** System is an ideal solution where heat stress is affecting the productivity, quality or comfort of people, animals and produce.

We have designed our system around **3 Basic Sizes** and applications



- * **LIGHT DUTY /DOMESTIC**
- * **COMMERCIAL**
- * **INDUSTRIAL.**



FREECALL 1-800 PRESSURE (1-800 773 778)

www.coldmistcooling.com.au

LIGHT DUTY / DOMESTIC KIT

This system is typically used where the area to be cooled is open sided. Air circulation is facilitated by natural movement and breezes. Ideal for **Patios, Open Air Cafes, Children's Play Areas and Beer Gardens**. Select from our **PATIO KITS** and expand your system by adding individual components. Reduced prices apply on components when purchased with any basic kit. The basic kit will cover areas 18-25 Square Metres and can be expanded up to approx 60Sqr Mtrs.

Prices quoted are **SELF-INSTALL**

KIT PRICES		ORDER CODE	Unit Price ex GST
PATIO KIT B1	comprising of 1 x CPD , 2 x ST60, 2 x ST30, 4 x PJSTD, 12 x FLXCL 2 x PJ90, 1 x PDV, 1 x HPH20, 12x PH	DIYB1	\$ 2130
PATIO KIT B2	comprising of 1 x CPS , 2 x ST60, 2 x ST30, 4 x PJSTD, 12 x FLXCL 2 x PJ90, 1 x PDV, 1 x HPH20, 12x PH	DIYB2	\$ 1950
INDIVIDUAL COMPONENT PRICES — for system expansion			
	COLDMIST Pump 240v—with Motor Timer PLUS Timed Deodoriser Injector, Inlet Filter, High Pressure Connection Hose and fittings	CPD	\$ 1535
	COLDMIST Pump 240v— with Motor Timer, Inlet Filter, High Pressure Connection Hose and fittings	CPS	\$ 1355
	Flexclamp with Anti Drip Nozzle	FLXCL	\$ 24
	Pipe Joiner with Nozzle	PJNZ	\$ 104
	Pipe Joiner Standard	PJSTD	\$ 42
Stainless Steel Tube The use of stainless steel tubing ensures a durable, chemical resistant, temperature stable, leak free and neat installation. Pipes are pre-punched with holes at 1metre intervals to accept the Patented Flexclamps.		12mmØ Stainless Steel Tubing 6Mtr	ST60 \$ 68
		3Mtr	ST30 \$ 34
		1.5Mtr	ST15 \$ 17
High Pressure Hose		8mtr	HPH8 \$ 165
		20mtr	HPH20 \$ 227
Pipe Joiner 90° Angled		For assembly of Cooling Grid	PJ90 \$ 56
Pipe Holder		For mounting of Stainless Tubing	PH \$ 3
Drain Valve		Fitted at end of line to de-pressurise / flush system as required	PDV \$ 35

Prices are quoted excluding GST and ex our warehouse on the NSW Central Coast
FREECALL 1-800 PRESSURE (1-800 773 778) www.coldmistcooling.com.au

COMMERCIAL KITS

These are used where the area to be cooled is within a contained building structure . Most workshops/warehouses have roller shutter doors which remain open for equipment and plant passage. This creates a situation where air flow both in and out is erratic and affected by natural wind conditions. As air flow cannot be accurately measured and controlled , the best way to achieve cooling is a system where the nozzle matrix is affixed directly in front of a fan which is in turn directed at the area requiring cooling. This is shown below mounted on a portable fan unit. Stimulating air flow in a workshop set up is critical to the operation of the system because if the air is not moved through the workshop, humidity will increase and efficiency will decrease.



PORTABLE FAN



WORKSHOP with INSTALLATION



Before a final quotation can be supplied, we need to know a little about your requirements. Costs can be reduced by providing your own Fan Units and/or installations. More permanent installations can be supplied where large 1400mm dia. 6 bladed low revving fans are permanently mounted into the workshop walls. Numbers of fan/cooling assemblies vary dependent on the area being cooled and building dynamics . What we would require to be able to supply a preliminary quote would be:

- * Workshop size including height-a floor plan would be helpful (**FREEFAX to 1-800 898855**)
- * Nature of workshop activity (welding - dust - etc)
- * 415 or 240Volt Availability
- * What is average humidity/temp. levels in the location ? The higher the humidity the lower the effect of the Coldmist Cooling System.
- * A bonus would be digital pictures of the area.(**e-mail ianc@kranzle.com.au)**

After an assessment of your requirements and dependent on how many components such as fans and high pressure hosing you choose to self supply as well as the final pump size (dependent on nozzle quantities), total prices can be as low as with a Light Duty /Domestic unit or up to 3-4 times as much. Working in conjunction with you, **COLDMIST** will design , pre cut and punch all tubing to suit your self supplied hardware.

INDUSTRIAL

In situations where very large workshops, sheds or warehouses need to be cooled, the heavy duty side of **COLDMIST** can be called upon. **A complete turnkey operation is offered** . Systems can incorporate computer controlled processors to control, temperature, humidity and air flow.

Systems in this category seldom start under \$20,000. In most instances, we would control all installation and commissioning of the system. Quotations can only be given after due inspection of the areas and after obtaining an accurate and firm brief from you .

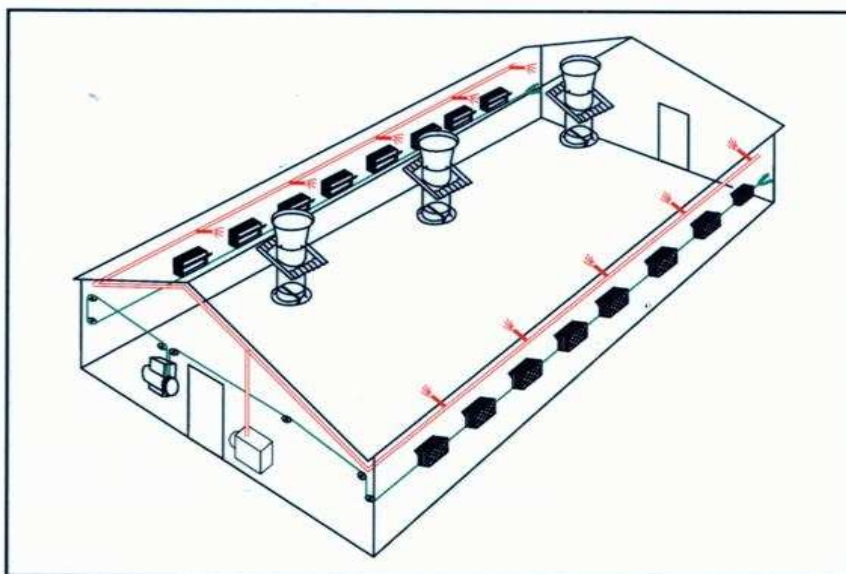
SKOV high-pressure cooling - quality including flexibility

In the development of the high-pressure cooling system from SKOV great importance has been attached to quality and flexibility. The quality is ensured by using long life components with great reliability.

The system comprises standard components which can easily be adapted to the specific house. This ensures that the system is very flexible.

A system for high-pressure cooling from SKOV includes:

- Pump unit with filters
- Piping
- Nozzles



Pump unit - complete with filters

The pump forms the basis of an efficient cooling system. The pump unit is available in 3 types (from 5 to 22 litres per minute) complete for connection of power and water.

Efficient filters ensure a reliable system with long life. SKOV uses filters which filter the water to minimum 95-98 % of the particles (1 micron).

The filters can also be equipped with an extra phosphate filter cartridge for optimum reduction of calcium and minerals in the water.



Piping

Only stainless, acid-proof pipes and sockets with great durability and long life are used. Holes for nozzles can be made with a special pair of nippers after installation of the pipes. Thus the nozzles in the patented nozzle clips **FlexClamp** can be placed anywhere, which permits optimum placing above the air inlet. Alternatively, the pipes can be supplied with prefabricated holes for nozzles.

Nozzles

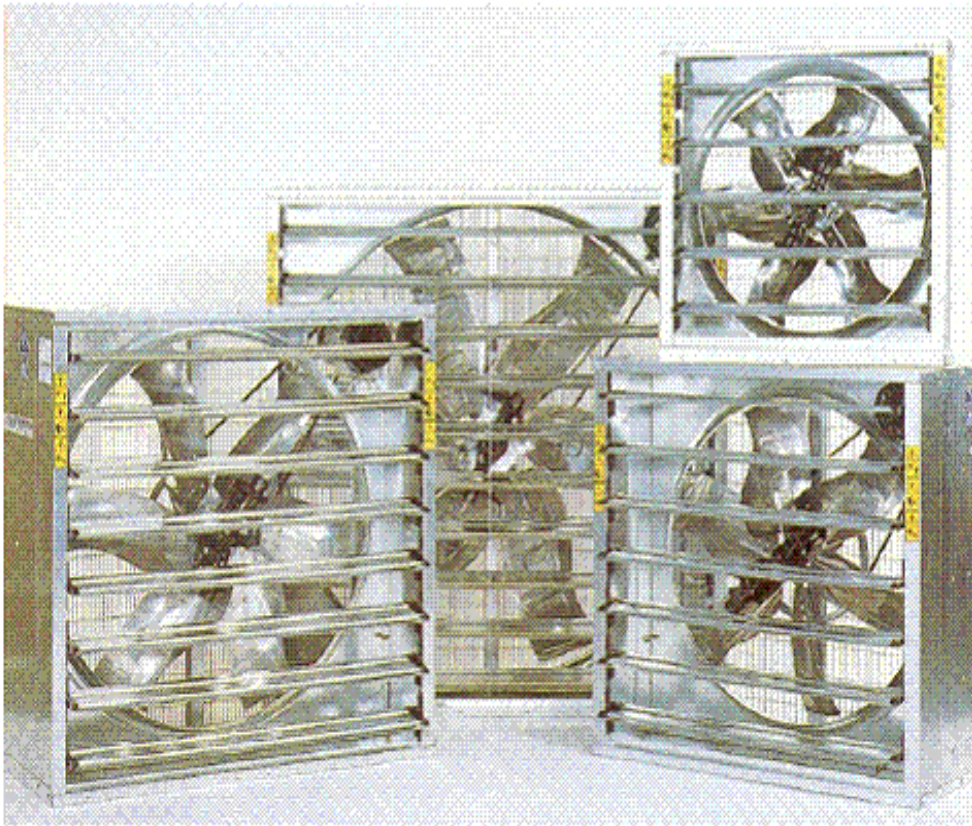
The patented nozzles are equipped with a filter in front of each nozzle head, which reduces the risk of calcium deposits. The nozzle heads are also available with anticalcium coating, which reduces problems with calcium deposits in the nozzle heads even more. All nozzles are mounted with an antidrip valve.



DB 1000 / DB 1100 / DB 1400

GABLE FAN

TECHNICAL INFO



FAQ & A's

- Water Consumption is 5.9 Litres / Hour / Nozzle on 100% Duty Cycle
- Maintenance includes Filter Cleaning/Replacement and Oil Changes.
- 415v is the preferred voltage for large installations.
- The systems permits the injection of odour control and disinfection solutions
- One Year Warranty