

Central Heating and Ventilation

Highly Efficient Ducted Heating, Cooling and Ventilation



Quiet, Unobtrusive Comfort for Your Whole Home



Efficient Comfort for Your Whole Home

Ducted Heat Pumps

Heat or Cool Your Whole Home with a Ducted Heat Pump System.

Mitsubishi Electric Ducted Heat Pump Systems are the ultimate solution for unobtrusive, whole home comfort. Designed for easy installation in ceiling or bulkhead spaces, ducted heat pumps are hidden from view, with only subtle grilles visible. Using concealed ducting to connect multiple rooms for heating or cooling, these systems are ideal for residential or commercial applications.

Why Choose Heat Pump Technology?



Discreet Ducted Design

With only subtle grilles visible, a ducted system lets your interior design style take centre stage. Not only does a ducted system provide a whole home heating or cooling solution, it offers a sleek installation for the design-conscious.



Wi-Fi Control Upgrade

With the addition of award-winning Mitsubishi Electric Wi-Fi Control, you can control and monitor your heat pump from absolutely anywhere via your smartphone, tablet or online account.



Convenient Comfort

Heat pumps move warm air throughout the room, meaning you no longer need to rearrange your furniture around your heat source. Heat pumps also allow comfort at the touch of a button – there's no manual tasks such as cutting or stacking firewood.



Grille Options

Mitsubishi Electric Ducted Heat Pump Systems allow for a wide range of grille options to best suit your installation needs. From ceiling and wall installations, to under floor grille options, talk to your installer about what's right for you.



Deluxe Weekly Controller

This attractive full dot liquid crystal display incorporates a large backlit screen and simple menus for easy operation. You can set up to eight temperature and airflow patterns per day for seven days, allowing you to reduce your energy consumption; saving you both time and money.



Optional Zone Controller Upgrade

With the ability to control up to eight zones, expanded functionality and interaction, intuitive airflow control, and temperature, occupancy and brightness sensors - the PAC-ZC Zone Controller brings intuitive, yet simple control to a whole new level.



Healthy, Fresh Air Ventilation

Lossnay Fresh Air Ventilation

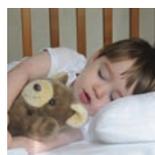
Balanced Pressure Heat Recovery Ventilation Benefits

Ventilating your home is vital as it maintains air quality and reduces moisture, creating a healthier and more comfortable environment. The Mitsubishi Electric Lossnay System is a patented heat recovery ventilation solution that uses fresh air (not attic air) to ventilate your home. The system works by extracting stale air from inside your house and replacing it with allergen-reduced fresh air from outside.



Improved Air Quality

By drawing in fresh outdoor air, indoor air quality is improved as high levels of CO₂, odours and other pollutants are removed from your home.



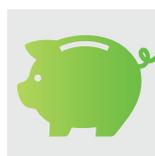
Creates a Healthier Home

Filtered fresh air improves air quality for allergy and asthma sufferers.



Fresh Air Without Windows Open

Lossnay allows you to have a well-ventilated home without the need to open windows. This improves the safety of your home and minimises outdoor noise.



Energy Efficient

Incoming fresh air is pre-warmed so your heating system isn't required to work as hard to reach desired temperatures. This is highly energy efficient, and can help reduce heating bills.



Retains Heat

Lossnay's unique Heat Recovery Technology collects up to 86% of the heat energy in outgoing air which is then used to pre-warm or cool the fresh air vented in.



Assists Moisture and Condensation Control

Lossnay effectively controls moisture in your home by directly removing stale air that causes condensation via the Lossnay Core.



Balanced Pressure, No Draughts

Lossnay is specifically designed for more airtight homes built to the current New Zealand Building Code; bringing in the optimum amount of fresh air without creating draughts and minimising indoor temperature fluctuations.



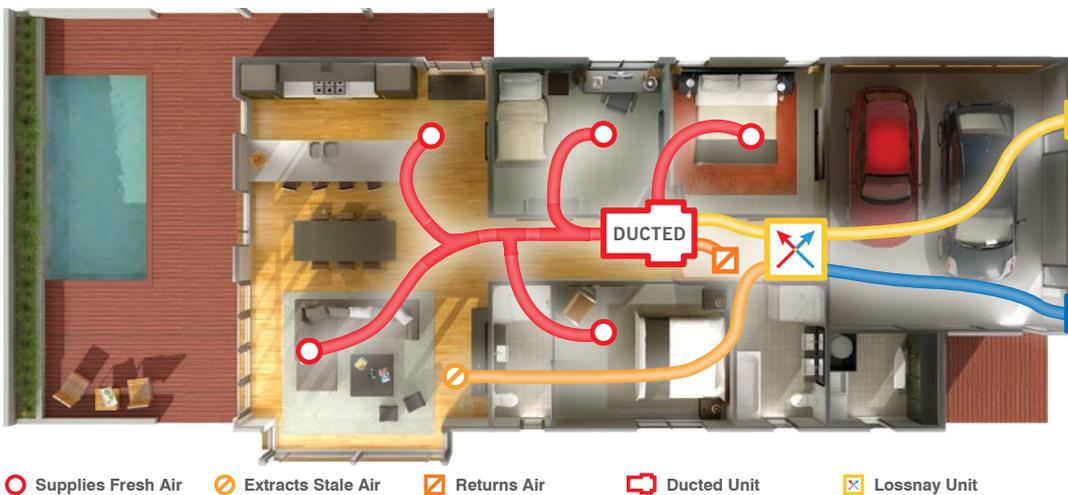
Quietest in its Class

At an ultra quiet 14dBA on low fan speed, the Lossnay VL220 is the quietest system in its class.



The Best of Both Worlds

Heating and Ventilation in Your Home



Reduce Your Heating Bill by Combining Your Heating System with Lossnay Ventilation

The Mitsubishi Electric Lossnay System can be integrated with a PEAD Ducted Heat Pump for a total home heating, cooling and ventilation solution. The benefits of these individual systems are further enhanced when used together. Combining Lossnay with a Mitsubishi Electric Ducted Heat Pump System is the ultimate home heating and ventilation solution for superior comfort and health.

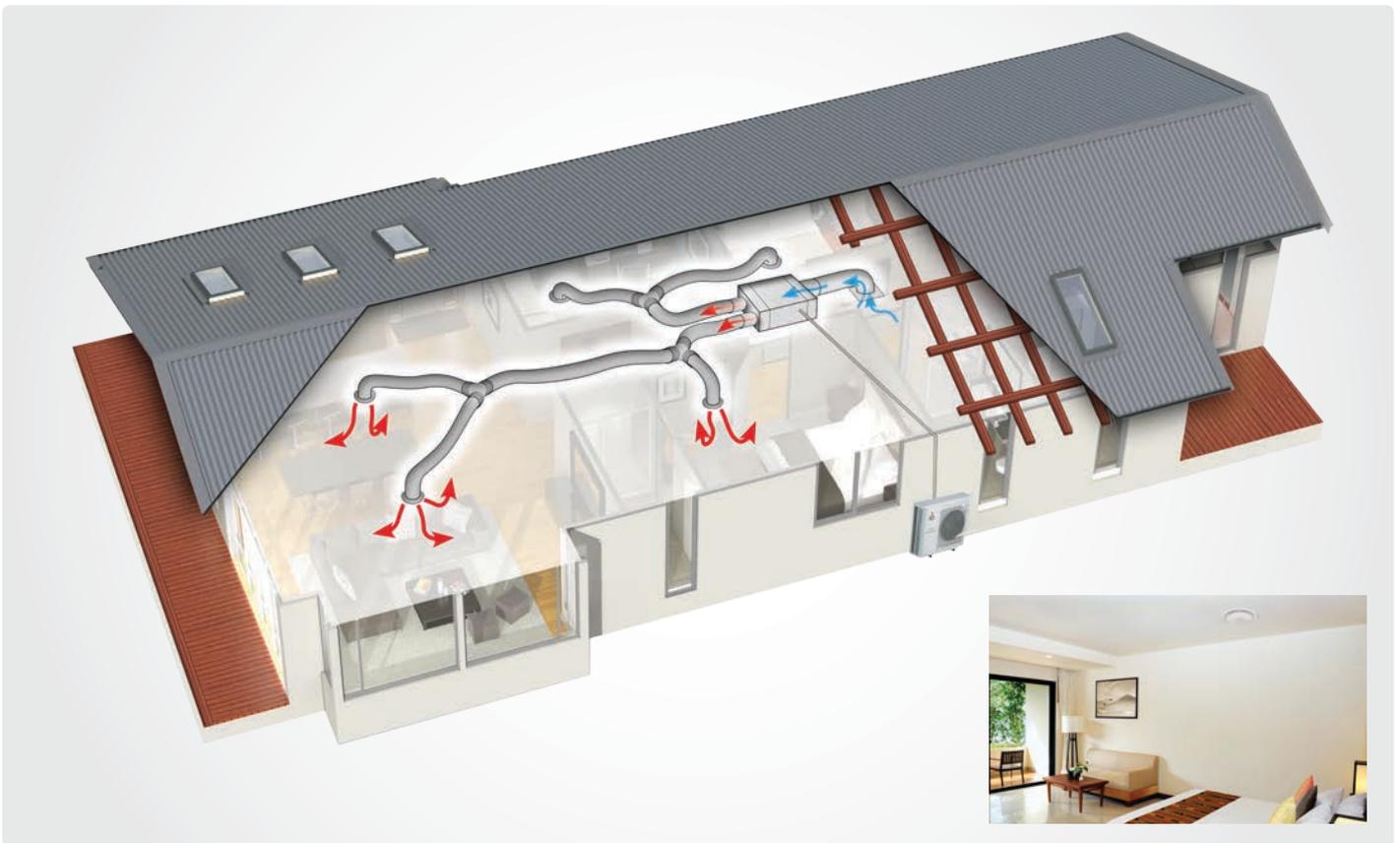
The Lossnay System recovers heat from the stale air it extracts from your home to pre-heat or pre-cool incoming fresh air. This process has many advantages as your heating system is only required to complete a small amount of additional heating or cooling to bring your home to a desired temperature. This is highly energy efficient and can contribute to significantly reducing your heating bill. The ability to pre-heat incoming fresh air also means your home can be brought to the desired temperature faster and your heat pump is not required to work as hard to do so. Additionally, by having a well-ventilated home the air is much drier, speeding up the heating process. These two systems will ultimately create a healthier environment for you and your family.

	Heat Pump	Ventilation	Ducted Heat Pump + Ventilation
Heating/Cooling	✓		✓
Fresh Outside Air		✓	✓
Filtered Air (dust etc. removed)	✓	✓	✓
Energy Efficient	✓	✓	✓
Energy Recovery (Heat Exchange)		✓	✓



The Ultimate in Heat Pump Technology

Ducted Central Heating



How Do Ducted Heat Pumps Work?

Ducted Systems combine the efficiency and convenience of heat pump technology into a whole home solution. Through installation of a ducted heat pump into a ceiling or bulkhead space, multiple rooms can be connected for heating and cooling, making this the ideal system for residential or commercial applications. Using concealed ducting, this product is hidden from view with only subtle grilles visible.

Mitsubishi Electric provides the ultimate ducted heat pump solutions for unobtrusive, whole home comfort. By incorporating Mitsubishi Electric High Wall Heat Pump Technology, the PEAD Ducted Range includes superior technology that provides quietness and efficiency.

Installation is simple with Mitsubishi Electric indoor units. A slim design means low ceilings and minimal clearance space is no issue and the possibilities are endless. This makes Mitsubishi Electric PEAD Ducted Systems perfect for a wide range of variations in airflow settings and cost effective heating and cooling of your home. They are also the answer to commercial building airflow requirements.

Ducted Central Heating

Specifications: Ceiling-Concealed (PEAD)

Refrigerant		R410A				R32					
Indoor Unit		PEAD-M71JAA		PEAD-M71JAA		PEAD-M100JAA		PEAD-M125JAA		PEAD-M140JAA	
Function		Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating
Capacity (min.-max.)	(kW)	7.1 (2.8-8.1)	8.0 (2.6-10.2)	7.1 (3.3-8.1)	8.0 (3.5-10.2)	10.0 (4.9-11.4)	11.2 (4.5-14.0)	12.5 (5.5-14.0)	14.0 (5.0-16.0)	14.0 (6.2-15.3)	16.0 (5.7-18.0)
Power Input	(kW)	2.10	2.04	1.85	1.93	2.67	2.80	3.66	3.52	4.37	4.18
Rated EER/COP		3.38	3.92	3.83	4.14	3.74	4.00	3.41	3.97	3.20	3.82
Rated AEER/ACOP		3.34	3.87	3.63	3.93	3.60	3.86	3.32	3.86	3.13	3.73
Power Supply Outdoor Unit		230V, Single-phase, 50Hz									
Airflow	(m ³ /h)	1051-1260-1501				1440-1738-2041		1771-2131-2520		1918-2340-2761	
	(L/S)	292-350-417				400-483-567		492-592-700		533-650-767	
External Static Pressure	(Pa)	35/50/70/100/125									
Sound Pressure Level	(dBA)	30-34-39				33-38-42		36-40-44		40-44-49	
Dimensions W x D x H	(mm)	1,100 x 732 x 250				1,400 x 732 x 250				1,600 x 732 x 250	
Weight	(kg)	30				39		40		44	
Outdoor Unit		SUZ-KA71VAD2		PUZ-ZM71VHA		PUZ-ZM100VKA		PUZ-ZM125VKA		PUZ-ZM140VKA	
Dimensions	Height (mm)	880		943		1338		1338		1338	
	Width (mm)	840		950		1050		1050		1050	
	Depth (mm)	330		330		330		330		330	
Weight	(kg)	54		70		111		111		111	

Fresh Air Home Ventilation

Series	Domestic VL-220CZGV-E	LGH Range
Heat Exchanger Core Technology	Heat Recovery <i>Can recover heat or cooling energy from extracted room air and also heat energy from wet areas such as bathrooms and kitchens.</i>	Energy Recovery <i>Can recover heat or cooling energy from extracted room air only.</i>
Extract Air from Wet Areas	<i>Can recover heat from wet areas such as bathrooms and kitchens.</i>	No

Specifications: Fresh Air Home Ventilation

Type	Heat Recovery Balanced Pressure Ventilator	Energy Recovery Balanced Pressure Ventilator	Energy Recovery Balanced Pressure Ventilator										
Model	VL-220CZGV-E	LGH-35RVX-E	LGH-50RVX-E										
Ventilation Modes	Heat Recovery Mode, Bypass Ventilation Mode (optional damper P-133DUE-E required)	Energy Recovery Mode, Bypass Ventilation Mode	Energy Recovery Mode, Bypass Ventilation Mode										
Heat Exchange System	Air to Air Sensible Heat Exchanger	Air to Air Sensible and Latent Heat Exchanger	Air to Air Sensible and Latent Heat Exchanger										
Heat Exchange Material	Specially Treated Non-permeable Resin Core	Specially Treated Permeable Paper Core	Specially Treated Permeable Paper Core										
Surrounding Air Condition	Between 0°C and 40°C, 80%RH or less	Between -10°C and 40°C, 80%RH or less	Between -10°C and 40°C, 80%RH or less										
Return (Suction) Air Condition	Up to 40°C, 95%RH	Up to 40°C, 80%RH	Up to 40°C, 80%RH										
Supply Fan Operation Under Low Outdoor Temperature	0°C to -5°C: Intermittent operation 24 min ON, 6 min OFF. -5°C or less: Continuous supply air stopped.	-10°C to -15°C: Intermittent operation 60 min ON, 10 min OFF. -15°C or less: Intermittent operation 55min OFF, 5 min ON.	-10°C to -15°C: Intermittent operation 60 min ON, 10 min OFF. -15°C or less: Intermittent operation 55min OFF, 5 min ON.										
Electrical Power Supply	220-240V / 50Hz		220-240V / 50Hz										
Fan Speed	Fan Speed 4	Fan Speed 3	Fan Speed 2	Fan Speed 1	Fan Speed 4	Fan Speed 3	Fan Speed 2	Fan Speed 1	Fan Speed 4	Fan Speed 3	Fan Speed 2	Fan Speed 1	
Input Power	(W)	80	35	18.5	8.5	140	70	31	11	165	78	32	12
Air Volume - Heat Recovery Mode	(m ³ /h)	230	165	120	65	350	263	175	88	500	375	250	125
	(l/s)	64	46	33	18	97	73	49	24	139	104	69	35
External Static Pressure	(Pa)	164	84	44	13	160	90	40	10	120	68	30	8
Temperature Exchange Efficiency (%)		82	84	85	86	80	82.5	86	88.5	78	81	83.5	87
Noise (dBA) (Measured at 1.5m under the centre of the unit in an anechoic chamber)		31	25	19	14	32	28	20	17	34	28	19	18
Duct Size	(mm)	150				150				200			
Interlock Cable Included (CN2L)		No				Yes				Yes			
Dimensions W x D x H	(mm)	850 x 720 x 320				888 x 874 x 331				888 x 1016 x 331			
Weight	(kg)	31				30				33			



Black Diamond Technologies

Exclusive distributor of
Mitsubishi Electric products in NZ

WELLINGTON HEAD OFFICE

1 Parliament Street
PO Box 30772
Lower Hutt 5040

Phone (04) 560 9147
Fax (04) 560 9133

AUCKLAND BRANCH

Unit 1, 4 Walls Road
PO Box 12726
Penrose, Auckland 1642

Phone (09) 526 9347

CHRISTCHURCH BRANCH

44 Halwyn Drive
PO Box 16904
Hornby, Christchurch 8441

Phone (03) 341 2837

For more information on Mitsubishi Electric Central Heating and Ventilation, please visit www.mitsubishi-electric.co.nz or call our Customer Service Team on **0800 784 382**