MITSUBISHI ELECTRIC

Central Heating & Ventilation

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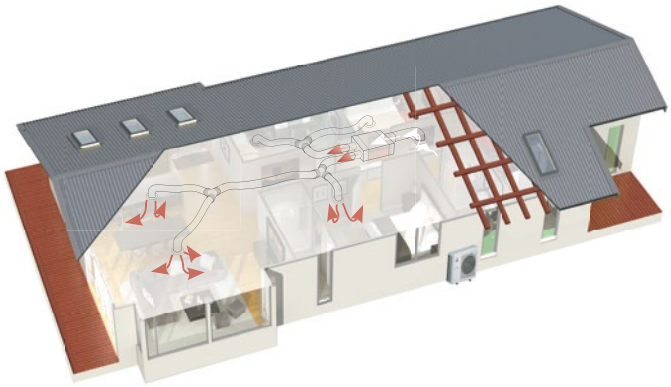
HRV

Experience Year-Round Comfort With a Whole Home Ducted Heat Pump System

A Mitsubishi Electric Ducted Heat Pump System is designed to provide whole home central heating or cooling at a constant temperature throughout the house. Ideal for installing in new builds or retrofitted into existing homes, it is a cost-effective and energy efficient solution for year-round comfort. Mitsubishi Electric Ducted Systems are whisper quiet, and with only its grilles visible, it is the perfect unobtrusive solution for whole home heating or cooling at the same time.



Hidden From View

Installed in the ceiling 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.

Grille Options to Compliment Your Interior Design

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 underfloor grille options, talk to your installer about what's right for you.

Easy to Use 7-Day Wall Controller to Maximise Energy Efficiency

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, maximising energy efficient operation – saving you both time and money.

Optional Wi-Fi Control – Never Return to a Cold Home Again

Pre-heat or cool the whole home no matter where you are. On the way home, running late, coming home early, or even when you're in a different country, with optional Wi-Fi Control you'll always arrive home to total comfort.

Optional Zone Control

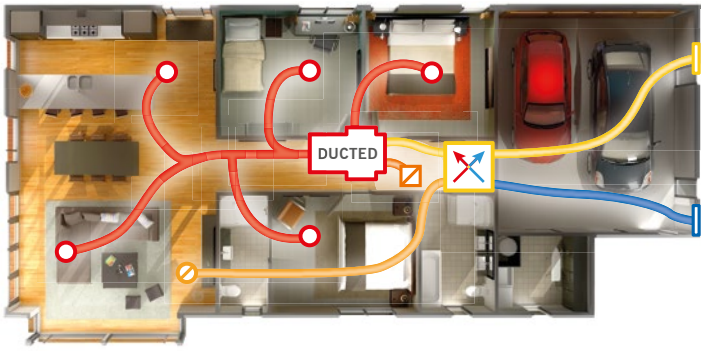
Program and control up to 4 or up to 8 individual zones, providing heating or cooling only to the rooms that require it.

Built-in sensor functions monitor room temperature, brightness and occupancy to maximise energy efficient use of the whole system throughout the home or just those rooms where it's needed most.

Note: All images are for illustrative purposes only.

Combine a Ducted System with Fresh Air Heat Recovery Ventilation

Maximise comfort by combining your ducted system with Lossnay Heat Recovery Ventilation. Mitsubishi Electric Lossnay Ventilation can be integrated with a PEAD Ducted Heat Pump System offering a complete home heating, cooling and ventilation solution.



Extracts air | Return air | Supplies fresh heated air | Lossnay Ventilation Unit

Lossnay Balanced Pressure Ventilation Systems recover heat energy from the stale, damp air they extract from your home. This energy is then used to pre-warm or pre-cool the incoming, filtered fresh air. The result? Your home can be brought to the desired temperature faster because the heating system is not required to work as hard to reheat the air. At the same time this means less power is required to maintain your desired indoor temperature, leading to noticeable reductions in your energy bills year-round.*1

By having a well-ventilated home the air is also much drier, further maximizing efficiencies. In addition, because fresh air is brought in from the outside and not from the attic, indoor air quality within your home is also maximised.

The combination of a PEAD Ducted Heat Pump System and Lossnay Balanced Pressure Ventilation System will ultimately create a drier, healthier, more energy efficient 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	✓	✓	✓
Heat/Energy Recovery (Heat Exchange)	-	✓	✓

Optional Wi-Fi Interlock for Total Home Control

Seamlessly combine your Mitsubishi Electric Ducted Heat Pump and Lossnay Heat Recovery Ventilation System through your Wi-Fi Control App for the ultimate visibility and control.

Because your Ducted Heat Pump needs to be in fan, heating or cooling mode for the connected Lossnay system to operate, you can now choose from two innovative modes to customise your climate control setup.

Use the "**Power Interlock**" mode, to enjoy set and forget convenience.

In this mode, both systems will always automatically activate together no matter which system you initially turn on.

Opt for "**Fresh Air Fan Interlock**" mode to prioritise fresh air circulation; regardless of whether the ducted system is turned on.

In this mode, the Lossnay System will override a ducted system that is turned off and automatically activate the system's Fan Mode.

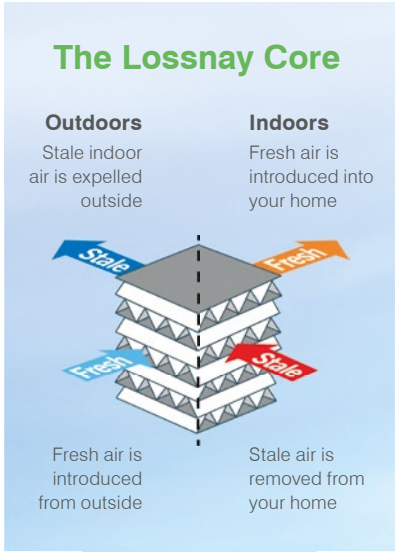
As a result fresh air continues to efficiently circulate throughout the home.

*1 Compared to the use of a 100% fresh air, conventional ventilation system
Note: Each unit requires its own Wi-Fi Interface to enable Wi-Fi Interlock Control.

The Lossnay Difference

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.

Furthermore, Lossnay also recovers heat energy from the outgoing stale air to pre-warm (or pre-cool) the fresh air being drawn into your home.



Recovers Energy to Pre-warm or Pre-cool Incoming Fresh Air

Lossnay's unique Heat Recovery Technology collects up to 92%*1 of the heat energy in outgoing air to pre-warm or pre-cool the incoming fresh air.

Energy Efficient, Save on your Power Bill*2

With Lossnay's Heat Recovery Technology, less additional heating/cooling of incoming air is required to achieve your ideal home temperature – saving you money.

Moisture and Condensation Control

Effectively reduces moisture in your home by directly removing stale air that causes condensation.

Automatic Free Cooling*3 Mode

When specific conditions are met*4, Lossnay will automatically enter Automatic Free Cooling Mode. As a result, cooler fresh air is introduced and stale air is extracted, bypassing the Lossnay Core. This is ideal for cooling down a dwelling that may have overheated during the day, once the outside temperature has dropped in the evening.

Now You Can See and Feel the Lossnay Difference!

The Lossnay Wi-Fi Control App lets you see by how many degrees Lossnay is pre-warming or pre-cooling your home and reminds you to clean the unit's filters, maximising cost efficiency and health benefits.

Fresh Air Without Open Windows

Lossnay ensures a well-ventilated home without opening windows, enhancing safety and minimising outdoor noise for your family.

Improved Air Quality

By drawing in fresh outdoor air and not attic air, indoor air quality is improved as high levels of CO_2, odours, pollen and other pollutants are removed – ideal for allergy and asthma sufferers.

Whisper Quiet Operation

From an ultra quiet 14dB*5, Lossnay is the ideal solution for residential homes and apartments where quiet comfort is key.

Easy To Clean

The standard filters can be removed for regular cleaning to keep the unit in optimal working condition.

*1 VL500 on default factory Fan Speed 1

*2 Compared to the use of a 100% fresh air, conventional ventilation system.

*3 In comparison to using a dedicated cooling device. The unit will continue to use a small amount of power to bring colder fresh air from outside.

*4 Lossnay must be in Auto Mode, and the outdoor air is cooler than the desired set temperature inside your home.

*5 VL-220CZGV-E on lowest fan speed. Measured at 1.5m.

Fresh Air Heat Recovery
Ventilation for all Types of Applications

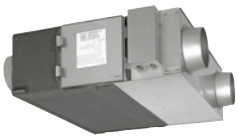
Ventilating your home is vital as it maintains air quality and reduces moisture, creating a healthier and more comfortable environment. There is a Lossnay solution to suit most New Zealand homes, from whole home ducted to single room applications.

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

Whole Home Ventilation

In-Ceiling Solutions

These ducted whole home balanced pressure Lossnay Heat Recovery Ventilation Systems are designed for installation in homes that have available roof or attic space to accommodate the heat exchanger and corresponding ducting.



Vertical Solutions

The slimline, Vertical Lossnay Series features a small, upright footprint that can be placed in the garage or a utility cupboard and is not limited to an in-roof installation.

Single Room Ventilation

In-Ceiling Single Room Solutions

This cost effective ventilation system is specifically designed to provide fresh filtered air to a single room with the additional benefit of energy efficient heat recovery at the same time. The ducted design means the system can be installed in the roof or attic space, so it is unobtrusive and hidden away.

Wall Mounted Single Room Solutions

This easy to install wall mounted system is designed to provide cost effective energy recovery ventilation to one specific area in the home. The ductless design means the system is ideal for homes and buildings where there is no roof space to install a heat exchanger.

Note: Single room systems are not interlock compatible.

Make Heat Recovery Ventilation Visible – with Advanced Lossnay Wi-Fi Control

Elevating air quality and maximising energy efficiencies has never been easier, because now the power is in your hands.

See by how many degrees[*5] Lossnay is pre-warming or pre-cooling your home in real time, helping you save on your power bill because less additional heating is required to get a room up to temperature.

And in summer, monitor by how many degrees Lossnay can reduce the average temperature in your home, using Automatic Free Cooling[*2] Mode.

The App will also proactively remind you when it is time to clean your filters to maximise both cost efficient operation and health benefits.

Lossnay Wi-Fi Control truly is the smart evolution in fresh air ventilation.

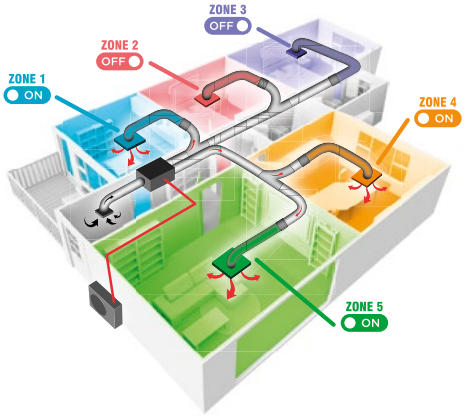
Note: Lossnay Wi-Fi Control comes standard with the Vertical Lossnay Series, and as an option for the LGH ranges.

[*2] In comparison to using a dedicated cooling device. The unit will continue to use a small amount of power to bring colder fresh air from outside.

[*5] The outside 'Fresh Air' and the inside 'Avg Temp' air temperatures are measured by the built-in sensors that are centrally located in the main Lossnay Ventilation unit.

Zone Controller

Zone Control will enable your Mitsubishi Electric Ducted Central Heat Pump System to program and control either up to 4 or up to 8 individual zones, providing heating or cooling only to the rooms that require it. Built-in sensor functions monitor room temperature, brightness and occupancy to maximise energy efficient use of the whole system throughout the home or just those rooms where it is needed.*



Features

Temperature Sensor

With an inbuilt thermostat (PAR-ZC01ME-E wall controller), the Zone Controller allows the actual usable space temperature to be measured, offering a more realistic and timely temperature measurement where it is needed most.

Occupancy Sensor

The Zone Controller (via the PAR-ZC01ME-E wall controller) constantly monitors the usable area to detect vacancy. Once detected, one of four user defined energy-save control options can be implemented to reduce energy consumption: turn the unit on/off, lower the fan speed, temperature offset, or turn user designated zones on/off.

Brightness Sensor

Working in conjunction with the Occupancy Sensor, the Brightness Sensor can be set to maximise energy savings when it detects user defined “Light” or “Dark” conditions (lux values).

Backlit LCD Touch Screen

Featuring a liquid-crystal display (LCD), back lit for operation in dark conditions. For ease of use, the user defined coloured LED indicator (at the bottom of the controller) lights up to indicate the current operation mode i.e. red for Heating, blue for Cooling, green for Night Setback.

Intuitive Airflow Control

Where traditional ducted systems require manual adjustment of the indoor fan speed, the PAC-ZC40/80, equipped with the exclusive Mitsubishi Electric Intuitive Airflow Control, intuitively detects which zones you have open/closed and adjusts the fan speed accordingly. When zones are not in use the fan speed is lowered automatically, leading to increased overall energy savings.

Optional Wi-Fi Control

Advanced temperature monitoring and management. Now you can control, monitor and schedule which zones your ducted heat pump is controlling in real time from anywhere via your smart phone, tablet or online account.

OPTIONAL Wi-Fi CONTROL

amazon alexa ENABLED

works with the Google Assistant

* Allows connection of up to 2x optional thermistors (PAC-SE42TS-E).

Specifications

Ducted PEAD Series

Specifications: Ceiling-Concealed (PEAD)

REFRIGERANT			R32											
Indoor Unit			PEAD-M50JAA		PEAD-M60JAA		PEAD-M71JAA		PEAD-M100JAA		PEAD-M125JAA		PEAD-M140JAA	
Function			Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating
Capacity (min.-max.)		(kW)	5.0 (2.3-6.2)	6.0 (1.7-7.4)	6.0 (2.3-6.5)	7.0 (2.8-8.0)	7.1 (2.8-8.1)	8.0 (2.6-10.2)	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)	1.33	1.44	1.72	1.85	1.98	2.00	2.67	2.80	3.66	3.52	4.37	4.18
Rated EER/COP			3.75	4.16	3.48	3.78	3.58	4.00	3.74	4.00	3.41	3.97	3.20	3.82
Rated AEER/ACOP			3.70	4.09	3.43	3.72	3.53	3.93	3.61	3.86	3.32	3.86	3.13	3.73
Power Supply Outdoor Unit			230V, Single-phase, 50Hz											
Airflow		(m^3/h)	720-871-1019		871-1080-1260		1051-1260-1501		1440-1738-2041		1771-2131-2520		1918-2340-2761	
		(L/s)	200-242-283		242-300-350		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)	30-35-39		30-32-36		30-33-38		33-38-42		36-40-44		40-44-49	
Dimensions W x D x H		(mm)	900 x 732 x 250		1,100 x 732 x 250				1,400 x 732 x 250				1,600 x 732 x 250	
Weight		(kg)	26		29		30		39		40		44	
Outdoor Unit			SUZ-M50VAD		SUZ-M60VAD		SUZ-M71VAD		PUZ-ZM100VKA2		PUZ-ZM125VKA2		PUZ-ZM140VKA2	
Dimensions	Height	(mm)	714		880				1,338					
	Width	(mm)	800		840				1,050					
	Depth	(mm)	285		330				330 (+40)					
Weight		(kg)	41		54		55		114					
Operation Range Outdoor	Cooling	[°C]	-15 ~ 52						-5 (-15*) / 52					
	Heating	[°C]	-15 ~ 24						-20 / 21					

*With optional air protection guide.

VL Whole Home Range

Specifications: Fresh Air Home Ventilation

Type		In-Ceiling Concealed Ducted				Vertical Wall Mounted Ducted											
Model		VL-220CZGV-E				VL-250CZPVU2-L/R-EG				VL-350CZPVU2-L/R-EG				VL-500CZPVU2-L/R-EG			
Ventilation Modes		Heat Recovery Mode				Heat Recovery Mode				Heat Recovery Mode				Heat Recovery Mode			
Heat Exchange System		Heat Recovery Ventilating System				Heat Recovery Ventilating System				Heat Recovery Ventilating System				Heat Recovery Ventilating System			
Heat Exchange Material		Water-Resistant Paper Sensible Heat Exchanger				Synthetic Resin Sensible Heat Exchanger				Synthetic Resin Sensible Heat Exchanger				Synthetic Resin Sensible Heat Exchanger			
Surrounding Air Condition		Between 0°C and 40°C, 80%RH or less				Indoor temperature and humidity should not exceed the dew point temperature 12°C				Indoor temperature and humidity should not exceed the dew point temperature 12°C				Indoor temperature and humidity should not exceed the dew point temperature 12°C			
Return (Suction) Air Condition		Up to 40°C, 95%RH				Up to 40°C, 95%RH				Up to 40°C, 95%RH				Up to 40°C, 95%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.				-3°C to -15°C: Intermittent operation. -15°C or less: Continuous supply air stopped				-3°C to -15°C: Intermittent operation. -15°C or less: Continuous supply air stopped				-3°C to -15°C: Intermittent operation. -15°C or less: Continuous supply air stopped			
Electrical Power Supply		220-240V / 50Hz				220-240V / 50Hz				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	Fan Speed 4	Fan Speed 3	Fan Speed 2	Fan Speed 1
Input Power	(W)	80	35	18.5	8.5	107.5	44.5	23.5	12.5	138	63	34	19	255	104	49	21.5
Air Volume - Heat Recovery Mode	(m^3/h)	230	165	120	65	235	165	114	68	280	200	140	90	450	305	210	120
	(L/s)	64	46	33	18	65.3	45.8	31.7	18.9	77.8	55.6	38.9	25	125	84.7	58.3	33.3
External Static Pressure	(Pa)	164	84	44	13	150	74	38	14	150	74	38	14	200	98	50	18
Temperature Exchange Efficiency* (%)		82	84	85	86	85	87	88	90	85	87	88	90	85	87	89	92
Noise (dBA) (Measured at 1.5m under the centre of the unit in an anechoic chamber)		31	25	19	14	31	22.5	16	15>	35	26	20	15>	37	29	22	15>
Duct Size	(mm)	125/150				125				150				183			
Interlock Cable Included (CN2L)		No				Yes				Yes				Yes			
Dimensions W x D x H	(mm)	850 x 720 x 320				595 x 356 x 565				658 x 432 x 623				725 x 556 x 632			
Weight	(kg)	31				25				32				39			

*Based of winter conditions.

LGH Whole Home Range

Specifications: Fresh Air Home Ventilation

Type		In-Ceiling Concealed Ducted															
Model		LGH-15RVX3-E				LGH-25RVX3-E				LGH-35RVX3-E				LGH-50RVX3-E			
Ventilation Modes		Energy Recovery Mode, Bypass Ventilation Mode				Energy Recovery Mode, Bypass Ventilation Mode				Energy Recovery Mode, Bypass Ventilation Mode				Energy Recovery Mode, Bypass Ventilation Mode			
Heat Exchange System		Energy Recovery Ventilation System				Energy Recovery Ventilation System				Energy Recovery Ventilation System				Energy Recovery Ventilation System			
Heat Exchange Material		Specially Treated Paper Plate Heat Exchanger				Specially Treated Paper Plate Heat Exchanger				Specially Treated Paper Plate Heat Exchanger				Specially Treated Paper Plate Heat Exchanger			
Surrounding Air Condition		Between 0°C and 40°C, 80%RH or less				Between 0°C and 40°C, 80%RH or less				Between 0°C and 40°C, 80%RH or less				Between 0°C and 40°C, 80%RH or less			
Return (Suction) Air Condition		Up to 40°C, 80%RH				Up to 40°C, 80%RH				Up to 40°C, 80%RH				Up to 40°C, 80%RH			
Supply Fan Operation Under Low Outdoor Temperature		-10°C to -15°C: Intermittent opperation 60 min ON, 10 min OFF. -15°C or less: Intermittent operation 55min OFF, 5 min ON.				-10°C to -15°C: Intermittent opperation 60 min ON, 10 min OFF. -15°C or less: Intermittent operation 55min OFF, 5 min ON.				-10°C to -15°C: Intermittent opperation 60 min ON, 10 min OFF. -15°C or less: Intermittent operation 55min OFF, 5 min ON.				-10°C to -15°C: Intermittent opperation 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				220-240V / 50Hz				220-240V / 50Hz			
Fan Speed		4	3	2	1	4	3	2	1	4	3	2	1	4	3	2	1
Input Power	(W)	55	30	15	10	75	42	21	11	120	61	29	15	185	81	34	15
Air Volume - Heat Recovery Mode	(m^3/h)	150	113	75	38	250	188	125	63	350	263	175	88	500	375	250	125
	(L/s)	42	31	21	10	69	52	35	17	97	73	49	24	139	104	69	35
External Static Pressure	(Pa)	120	68	30	8	120	68	30	8	160	90	40	10	150	85	38	10
Temperature Exchange Efficiency* (%)		73.5	75.5	78	81.5	75.5	78.5	81	88	75	77	79	82	70.5	71.5	73.5	75
Noise (dBA) (Measured at 1.5m under the centre of the unit in an anechoic chamber)		27	22	18	17	30.5	25	19.5	17	30.5	24.5	19	17	35	27	21	17
Duct Size	(mm)	100				150				150				200			
Interlock Cable Included (CN2L)		Yes				Yes				Yes				Yes			
Dimensions W x D x H	(mm)	780 x 610 x 289				780 x 735 x 289				888 x 874 x 331				888 x 1,016 x 331			
Weight	(kg)	20				22				30				33			

Note: Other models of the LGH Range are available (air volume from 38–2,000 m^3/h).

*In Heating Mode.

Lossnay VL100 Single Room Range

Specifications: Single Room Ventilation

Type		Wall Mounted Single Room		In-Ceiling Single Room	
Model		VL-100EU5-E		VL-100ZSKRT-E	
Ventilation Modes		Energy Recovery Mode		Energy Recovery Mode	
Heat Exchange System		Energy Recovery Ventilation System		Energy Recovery Ventilation System	
Heat Exchange Material		Specially Treated Paper Plate Heat Exchanger		Specially Treated Paper Plate Heat Exchanger	
Surrounding Air Condition		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, 80%RH		Up to 40°C, 80%RH	
Electrical Power Supply		230V / 50Hz		230V / 50Hz	
Fan Speed		Fan Speed: High	Fan Speed: Low	Fan Speed: High	Fan Speed: Low
Input Power	(W)	31	15	32	15
Air Volume - Heat Recovery Mode	(m^3/h)	105	60	78	42
	(L/s)	29.1	16.6	21.7	11.7
Temperature Exchange Efficiency (%)*		73	80	52	64
Noise (dBA) (Measured at 1.5m under the centre of the unit in an anechoic chamber)		37	25	40	25.5
Duct Size	(mm)	-		100	
Dimensions W x D x H	(mm)	620 x 200 x 265		Unit:	386 x 386 x 204
				Grille:	455 x 455 x 9
Weight	(kg)	7.5		6	

*In Heating Mode.

Please note: When deciding on the best place to position the Lossnay Ventilation System, care needs to be taken to not have incoming air intake near or close to a wood burner flue.

How HRV makes it easy and affordable

Choosing, buying and owning an HRV product should be a breeze – so we've worked hard to make sure it is!

For a drier, warmer, healthier home

PROFESSIONAL INSTALLATION

Your HRV installation team is trained to give you a smooth installation experience and a tidy finished result.

EXPERT SERVICING

Your HRV product is designed to give you many years of trouble-free operation. Regular servicing is key to that, so we stand by and service everything we sell.

REFER A FRIEND

Refer a new customer to HRV and get $200 cash! Plus your friend will get a $200 discount!*.

*Terms and conditions apply. Eligible on a HRV ventilation system, ducted heat pump or a HRV hot water heat pump purchase.

CUSTOMER CARE ON CALL

Just call 0800 478 123 to connect with one of our super-friendly, experienced team. They love to help!

GET PEACE OF MIND WITH HRV

We take your trust seriously. So, everything we sell and install at HRV is backed by a comprehensive warranty (5 years for our HRV ventilation systems and accessories). If anything goes wrong during the warranty period, get in touch and we'll take care of it. Visit hrv.co.nz/warranty for more information.

PAYMENT OPTIONS AVAILABLE

HRV offer payment options with Q Card and Gem Interest Free to transform your home health. Visit hrv.co.nz/finance to find out more.

LONG TERM FINANCE

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YOUR IN-HOME EXPERT

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