

COMMERCIAL ACCESSORIES

ACCESSORY	DESCRIPTION	PART NUMBER
System Controllers The system controller is designed to link up to 12 continuous flow systems, allowing cascade and rotation functions	System control for up to 6 Continuous Flow Units: (For 32ECR6/32FCR6 model only)	
	System controller 1- 6	CF-SC4016M
	3m Connection Cable	CF-SC4016M-3M
	5m Connection Cable	CF-SC4016M-5M
	System controller for up to 12 Continuous Flow Units	
	System controller 1- 12	CF-SC40112M
	3m Connection Cable	CF-SC40112M-3M
	5m Connection Cable	CF-SC40112M-5M
Remote controller and cable Designed to allow adjustment of temperature as well as provide fault finding and diagnostic information	Controller + Cable	CF-KRC-9018C
Quick Connect Cable The quick connect cable is used when linking 2 continuous flow units only	Quick connect cable 2M Remote controller needed for operation	CF-0706377
Tank recirculation pumps To connect continuous flow systems to storage tanks	Pump for up to six 28ENR6/28FNR6 models	
	Circulation pump	H0255
	Unions	H0257
	Pump for up to six 32ECR6/32FCR6 models	
	Circulation pump	H0254
	Unions	H0256
Tank Thermostat	Alphastatplus	H0207



WARRANTY

Full Warranty terms and conditions are in the product's Owners Manual

** Thermal efficiency tested to AS 4552-2005

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COMMERCIAL GUIDE

CONTINUOUS FLOW RANGE



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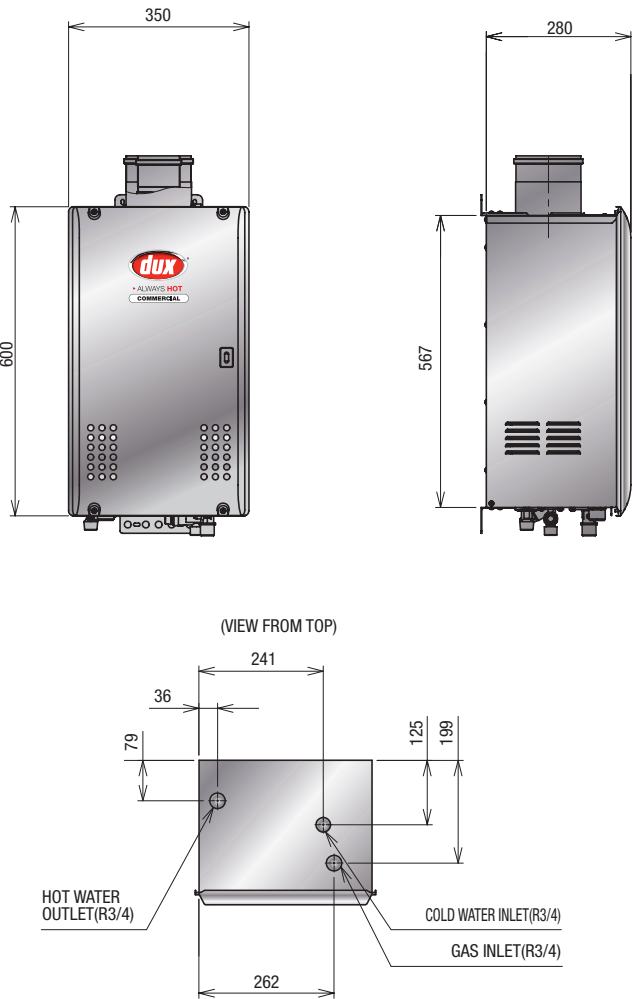
JAPANESE INGENUITY
Renowned internationally for their quality and leadership in the Commercial continuous flow water heater market. The main R&D centre employs over 500 staff dedicated to research and product planning, development and engineering. Since entering the market in 2015, Noritz continues to provide Australian and New Zealand with superior technology.



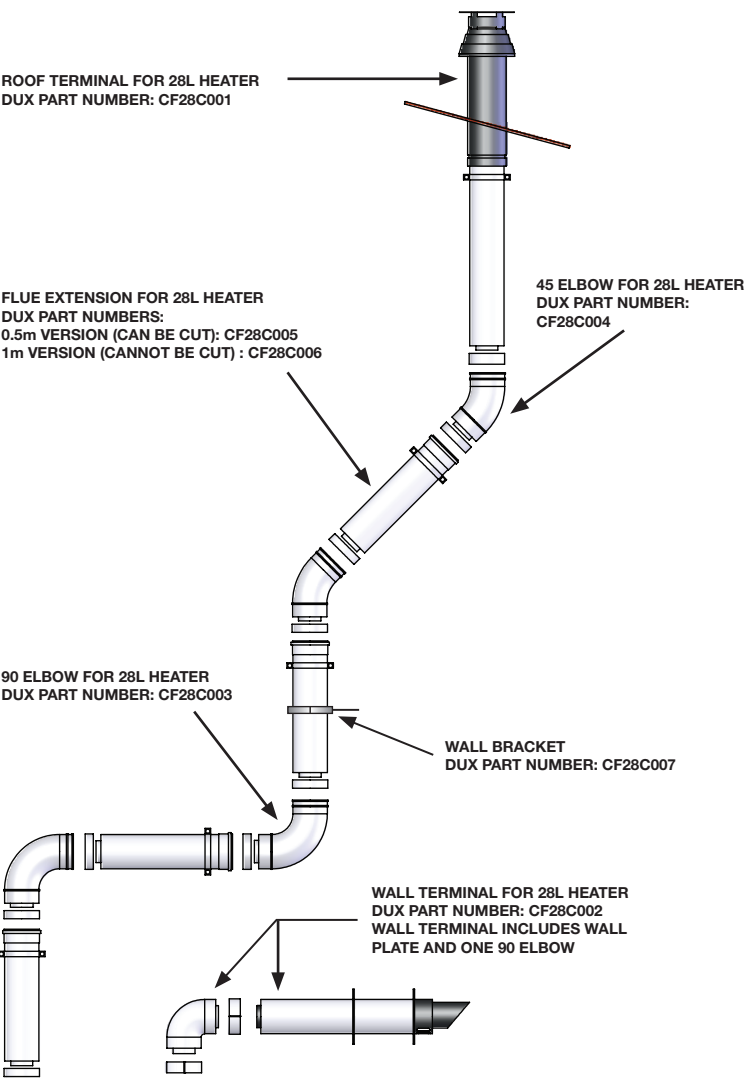
28L INDOOR & OUTDOOR FLUEING & DIMENSIONS



28L INDOOR UNIT



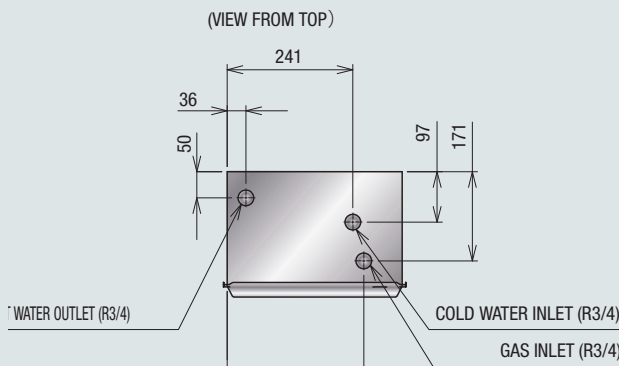
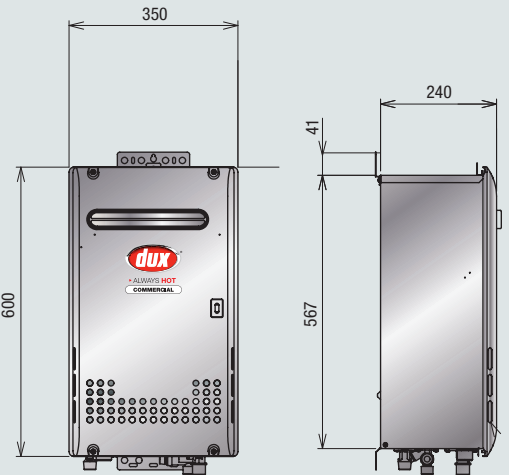
28L COAXIAL FLUEING OPTIONS



Number of elbows	0	1	2	3
Max length meters	14	12	11	9



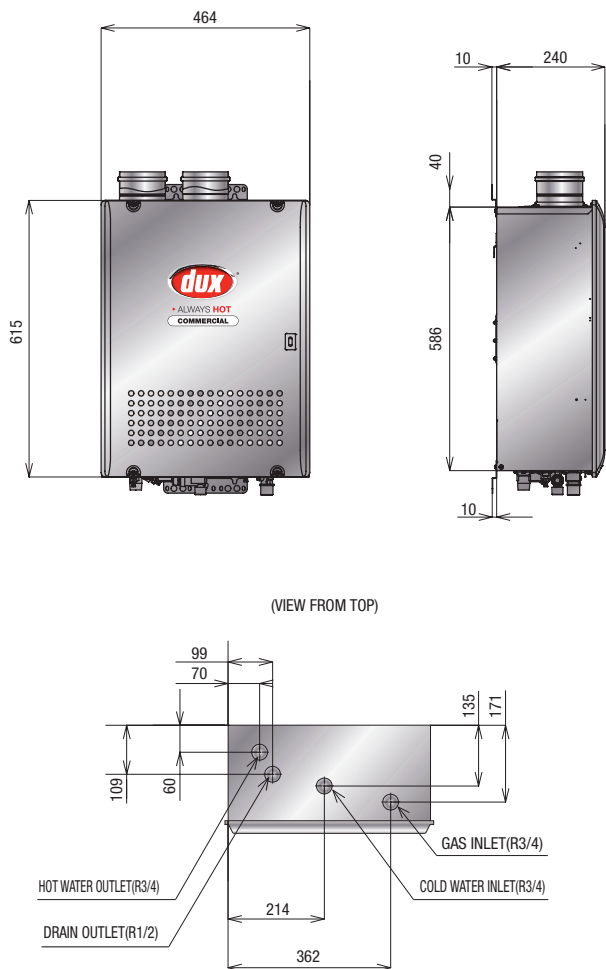
28L OUTDOOR UNIT



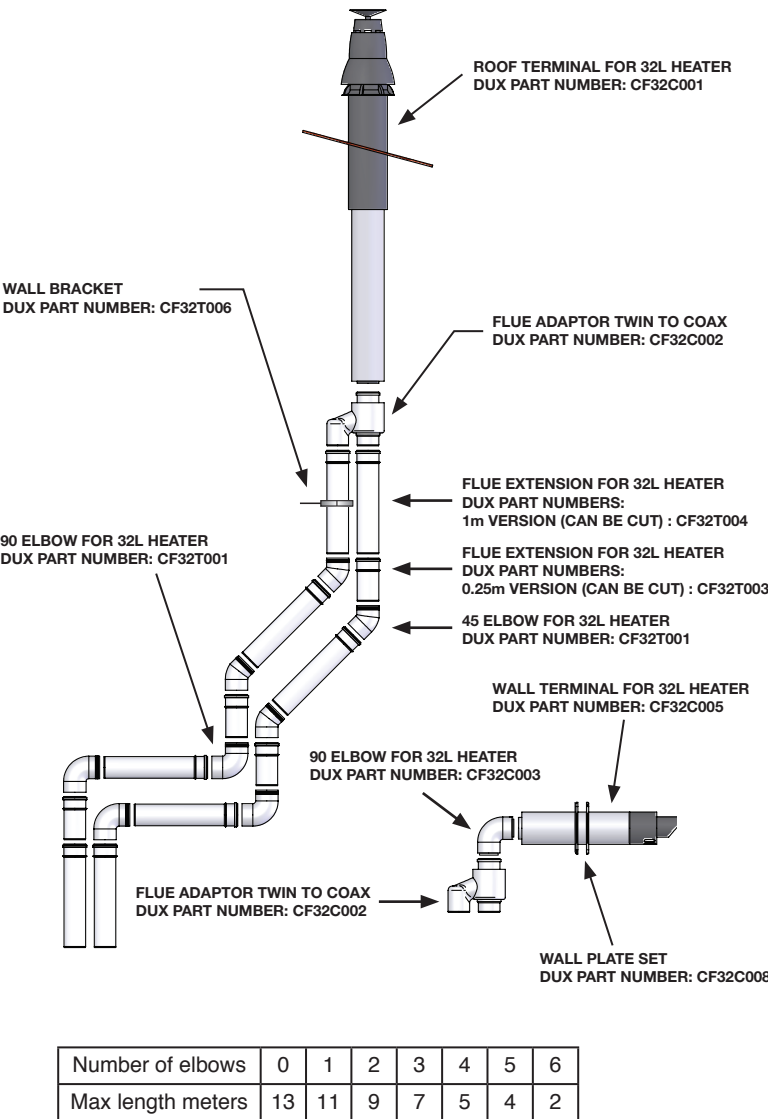
32L INDOOR & OUTDOOR FLUEING & DIMENSIONS



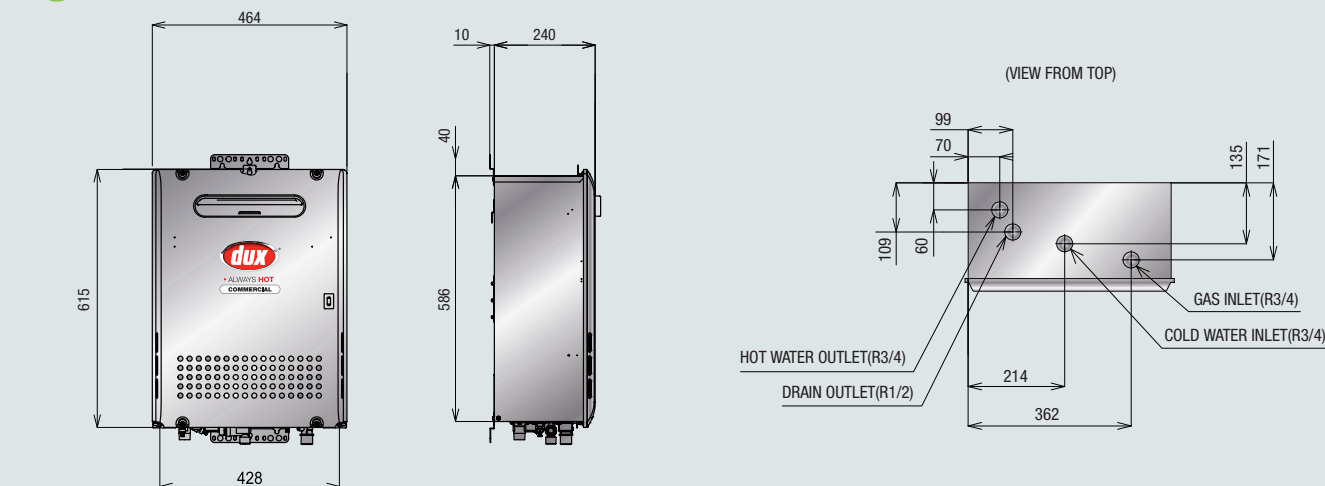
32L INDOOR UNIT



32L TWIN FLUEING OPTIONS



32L OUTDOOR UNIT



BREAKING NEW GROUND IN COMMERCIAL WATER HEATING

We are dedicated to highest quality, great design and innovation, offering a comprehensive range of continuous flow solutions to suit most commercial projects

The Dux Commercial range has been especially developed and designed for commercial applications by incorporating larger more robust heat exchangers.

Whether it is an apartment, hotel, office block or restaurant Dux Commercial has a water heating system to meet your project requirement.

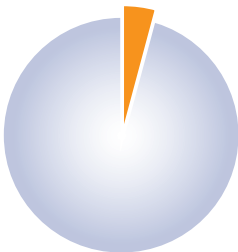
Our range has the ability to link together from 2 up to 24 units and the capacity to meet hot water flow rates of as low as 2.5L/min up to a massive 768L/min.

With safety, durability and reliability our water heaters are the ultimate commercial solution.

ROBUST COMMERCIAL DESIGN

The Dux Commercial range is designed for commercial applications which have greater daily water usage.

1 hour a day



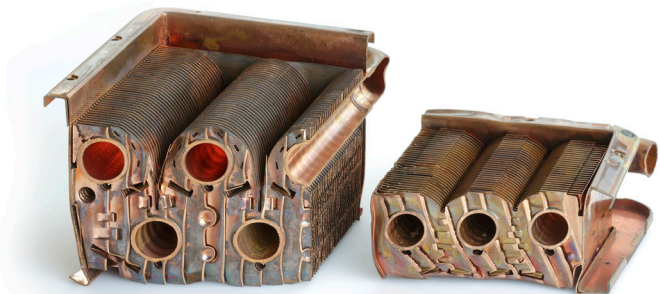
Domestic use

8 hours a day



Commercial use

High grade commercial components such as heat exchangers with 25% thicker pipes and 20% thicker fins allow the Dux Commercial range to meet the higher water use and flow rates required for commercial applications. For greater water flow and lower pressure loss Dux Commercial has up to 50% larger pipes compared to those used in domestic applications.



Intelligent Manifold Systems

Dux Commercial continuous flow water heaters can be linked to meet any size load from 2.5L/min to 768L/min. By linking units together the intelligent Manifold system provides the ability to cascade allowing small to large flow rates. It can rotate units to equalize the usage of each water heater providing longer life. Manifold systems also provide redundancy, continuing to provide hot water even if one of the units stop working.

Efficiency

Energy costs are reduced with the 96.4% thermal efficiency 32L condensing model. Modulating and cascading the individual water heaters reduces the number of units on at any time, thus improving plant efficiency and reducing energy consumption - saving on total water heating running costs.

Versatile installation

The Dux Commercial range has models for both indoor and outdoor applications. Complete Manifold systems in wall mount or floor standing options are available, which reduce installation time. This modular design allows individual water heaters and components to be transported with ease and with gaining access to buildings where access may be difficult.

Warranty*

All Dux Commercial products have a 5 year warranty on the heat exchanger and a 2 year warranty on heater parts and labour.



THE BEST RANGE FOR COMMERCIAL HOT WATER

TANK MANIFOLD SYSTEM

DUX COMMERCIAL CONDENSING 32L

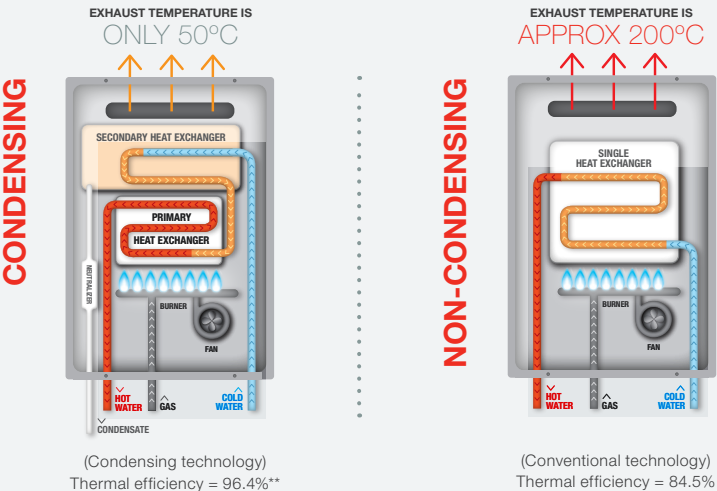


- ▶ Condensing delivers 96.4% heating efficiency providing running cost savings
- ▶ Designed for commercial applications using robust heat exchangers with thicker pipes and fins
- ▶ Modular design enabling up to 24 units to be linked together providing flow rates as low as 2.5L/min up to 768L/min
- ▶ Low Nox burner provides improved emissions and air quality
- ▶ Indoor and outdoor models available
- ▶ Commercial grade components throughout and durable silver finish
- ▶ Indoor room sealed models available with horizontal or vertical discharge and open flue options

CONDENSING IS THE FUTURE OF CONTINUOUS FLOW

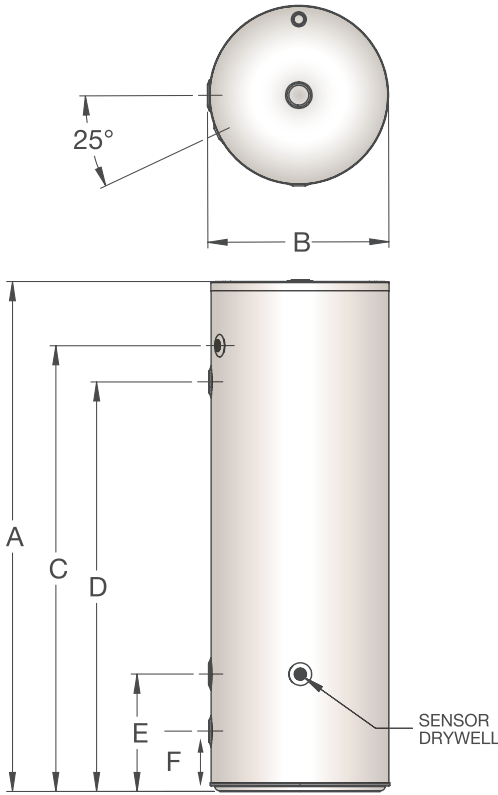
In a condensing continuous flow water heater, the water is heated a second time using the heat from the exhaust gas, reducing wasted energy and lowering the exhaust temperature.

In a non-condensing unit, the water only passes through one heat exchanger and the energy from the exhaust gas is wasted.



DUX TITAN STORAGE TANK

NOMINAL DIMENSIONS mm		
MODEL	315C0	400C0
Total Height (A)	1765	1705
Total Diameter (B)	615	705
Relief Valve Height (C)	1540	1430
Outlet Height (D)	1415	1430
Return Height (E)	405	390
Inlet Height (F)	210	235
SPECIFICATIONS		
MODEL	315C0	400C0
Storage Capacity (L)	321	415
Net Weight Empty (kg)	93	115
Maximum Operating Pressure (kPa)	800	
Maximum Temperature (°C)	82	
Connections (mm) Inlet / Outlet / Return	50	



The Titan tank is a high performance, high capacity, low maintenance tank, designed for the heavy demand of commercial and industrial applications

Features

- ▶ Suitable for water temperature from 60°C to 82°C
- ▶ For heavy demand application the Dux Titan can be manifolded together for greater flexibility
- ▶ 50mm connections for hi-flow applications
- ▶ Available in 315L and 400L models
- ▶ Y class enamel – commercial grade enamel for durability
- ▶ *Warranty - 5 year tank - 1 year parts and labour

DUX COMMERCIAL NON-CONDENSING 28L



- ▶ Designed for Commercial applications using robust heat exchangers with thicker pipes and fins
- ▶ Modular design enabling up to 24 units to be linked together providing flow rates as low as 2.5L/min up to 672L/min
- ▶ Low Nox burner provides improved emissions and air quality
- ▶ Indoor and outdoor models available
- ▶ Slim 350mm width design enabling replacement of existing units
- ▶ Commercial grade components throughout and durable silver finish
- ▶ Indoor room sealed models available with horizontal or vertical discharge and open flue options

LOW NOX BURNER



- ▶ **Less emissions** – The Dux Commercial range come with clean burning, Low Nox burners, providing reduced emissions
- ▶ **Latest burner technology** – Major cities, like California, insist on Low Nox burners for improved air quality

TANK MANIFOLD SYSTEM

- ▶ Tank Manifold systems are ideal when large flow rates are required. Both the 28L and the 32L can be utilized in a Tank Manifold system
- ▶ The Tank Manifold systems come standard with 28L or 32L commercial continuous flow water heater, a DUX TITAN storage tank, tank circulating pump and a controlling thermostat
- ▶ A Manifold pack of 12 x 32L units can provide up to 23,840L at a 50°C rise over a 2 hour peak

MODEL				PEAK LENGTH (L/hr)			
MODEL NUMBER	UNIT QTY	L/hr @ 50°C RISE	STORAGE (L)	1hr	2hr	3hr	6hr
28L Models							
D22813	2	1680	315	1995	3675	5355	10395
D32813	3	2520	315	2835	5355	7875	15435
D42813	4	3360	315	3675	7035	10395	20475
D42823	4	3360	630	3990	7350	10710	20790
D52813	5	4200	315	4515	8715	12915	25515
D62814	6	5040	400	5440	10480	15520	30640
D62823	6	5040	630	5670	10710	15750	30870
D82823	8	6720	630	7350	14070	20790	40950
D102823	10	8400	630	9030	17430	25830	51030
D122824	12	10080	800	10880	20960	31040	61280
32L Models							
D23213	2	1920	315	2235	4155	6075	11835
D33213	3	2880	315	3195	6075	8955	17595
D43213	4	3840	315	4155	7995	11835	23355
D43223	4	3840	630	4470	8310	12150	23670
D53214	5	4800	400	5200	10000	14800	29200
D63214	6	5760	400	6160	11920	17680	34960
D63223	6	5760	630	6390	12150	17910	35190
D83223	8	7680	630	8310	15990	23670	46710
D103224	10	9600	800	10400	20000	29600	58400
D123224	12	11520	800	12320	23840	35360	69920

HANDY TIP WHEN ORDERING

- ▶ D + Unit quantity + Unit size (32) or (28) + Number of tanks + Tank size 315L (3) or 420L (4) + Internal (F) or External (E) + Gas type Natural Gas (N) or LPG (L) + Wall mount (W) Floor mount (F) Back to back (B)
- ▶ D + (2/3/4/5/6/8/10/12) + (32 or 28) + (0/1/2) + (0/3/4) + (F or E) + (N or L) + (W/F/B)
- ▶ **Example:** D52813FLW (5 X 28L Internal units with LPG and 1 x 315L Storage tanks, Wall mount installation)

32L & 28L INDOOR & OUTDOOR

MODEL		32ECR6*	32FCR6*	28ENR6*	28FNR6*
Capacity L/min @ 25°C rise		32	32	28	28
Location		Outdoor	Indoor	Outdoor	Indoor
Operating Pressure (kPa)		200 -1,000	200 -1,000	200 -1,000	200 -1,000
Minimum Flow Rate (L/min)		2.5	2.5	2.5	2.5
Dimensions H X W X D (mm)		615 X 464 X 240	615 X 464 X 240	600 X 350 X 240	600 X 350 X 280
Weight (kg)		32	32	26	28
Water Holding Capacity (L)		2	2	1	1
Connection Sizes	Water Inlet	R 3/4 (20mm)	R 3/4 (20mm)	R 3/4 (20mm)	R 3/4 (20mm)
	Hot Water Outlet	R 3/4 (20mm)	R 3/4 (20mm)	R 3/4 (20mm)	R 3/4 (20mm)
	Gas Inlet	R 3/4 (20mm)	R 3/4 (20mm)	R 3/4 (20mm)	R 3/4 (20mm)
	Condensate Drain	R 1/2 (15mm)	R 1/2 (15mm)	N/A	N/A
Power Supply	Supply	230 - 240 VAC (50Hz)	230 - 240 VAC (50Hz)	230 - 240 VAC (50Hz)	230 - 240 VAC (50Hz)
	Consumption (W)	Operation 75 Freeze Prevention 223	Operation 75 Freeze Prevention 223	Operation 75 Freeze Prevention 193	Operation 75 Freeze Prevention 193
Gas Consumption	NG (MJ/hr)	217	217	220	205
	ULPG (MJ/hr)	217	217	220	205

PERFORMANCE DATA

MODEL		32ECR6*	32FCR6*	28ENR6*	28FNR6*
FLOW RATE L/min	Max	42	42	37	37
	20°C rise	40	40	35	35
	25°C rise	32	32	28	28
	35°C rise	23	23	20	20
	50°C rise	16	16	14	14

*ORDERING LPG OR NATURAL GAS

Model code + Gas type (N or L)

Example:

For a 32L outdoor unit with LPG the code is 32ECR6L

For a 28L indoor unit with Natural gas the code is 28FNR6N

OUR INTELLIGENT MANIFOLD SYSTEM

The Dux Commercial Intelligent Manifold system is suitable for any project where you need capacity, efficiency and control

► Intelligent Manifold System

The ability to modulate multiple units with the use of a system controller makes Dux Commercial water heaters efficient and intelligent

► Cascading

Up to 24 Dux Commercial units can be linked together with a single system controller. This allows variable outputs from 2.5L/min up to 768L/min to match the load requirement

► Rotation

In a Manifold system set up, the Dux Commercial units will communicate with one another and work in unison to even out the load on each individual unit, maximising output and system life

► Intelligent System Features

Additional product features provided by the intelligent system controller

- Self diagnostics for both system controller and all individual units connected to the system controller
- Can control tank circulation pump
- Tank thermostats can be connected
- An external alarm can be connected
- Should a unit stop working the system controller will continue to manage the load through the other working unit

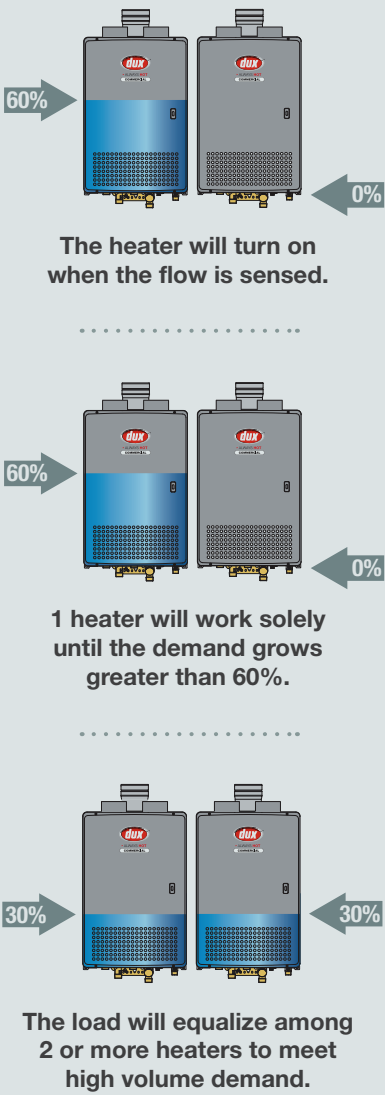
► Storage Options

Manifold systems are designed to be used with or without storage tanks. The design is also suitable for systems with or without flow and return piping systems

► Ease of Installation

The modular Manifold system is designed to fit into building lifts and easy to disassemble or reassemble on-site if required

CASCADING FUNCTION



ROTATION FUNCTION



OUR INTELLIGENT MANIFOLD SYSTEM



CONTINUOUS FLOW WITHOUT STORAGE TANKS

		Climate	Tropical				Warm				Moderate				Alpine/Cold			
		Cold water inlet	25°C				20°C				15°C				10°C			
MODEL		Hot water set	40°C	50°C	60°C	75°C	40°C	50°C	60°C	75°C	40°C	50°C	60°C	75°C	40°C	50°C	60°C	75°C
	Unit Qty	Minimum flow rate (L/min)	Maximum flow rate (L/min)				Maximum flow rate (L/min)				Maximum flow rate (L/min)				Maximum flow rate (L/min)			
28L Models																		
D22800	2	2.5	74	56	40	28	70	47	35	25	56	40	31	23	47	35	28	22
D32800	3	2.5	111	84	60	42	105	70	53	38	84	60	47	35	70	53	42	32
D42800	4	2.5	148	112	80	56	140	93	70	51	112	80	62	47	93	70	56	43
D52800	5	2.5	185	140	100	70	175	117	88	64	140	100	78	58	117	88	70	54
D62800	6	2.5	222	168	120	84	210	140	105	76	168	120	93	70	140	105	84	65
D82800	8	2.5	296	224	160	112	280	187	140	102	224	160	124	93	187	140	112	86
D102800	10	2.5	370	280	200	140	350	233	175	127	280	200	156	117	233	175	140	108
D122800	12	2.5	444	336	240	168	420	280	210	153	336	240	187	140	280	210	168	129
32L Models																		
D23200	2	2.5	84	64	46	32	80	53	40	29	64	46	36	27	53	40	32	25
D33200	3	2.5	126	96	69	48	120	80	60	44	96	69	53	40	80	60	48	37
D43200	4	2.5	168	128	91	64	160	107	80	58	128	91	71	53	107	80	64	49
D53200	5	2.5	210	160	114	80	200	133	100	73	160	114	89	67	133	100	80	62
D63200	6	2.5	252	192	137	96	240	160	120	87	192	137	107	80	160	120	96	74
D83200	8	2.5	336	256	183	128	320	213	160	116	256	183	142	107	213	160	128	98
D103200	10	2.5	420	320	229	160	400	267	200	145	320	229	178	133	267	200	160	123
D123200	12	2.5	504	384	274	192	480	320	240	175	384	274	213	160	320	240	192	148

HANDY TIP WHEN ORDERING

- D + Unit quantity + Unit size (32) or (28) + Number of tanks + Tank size 315L (3) or 420L (4) + Internal (F) or External (E) + Gas type Natural Gas (N) or LPG (L) + Wall mount (W) Floor mount (F) Back to back (B)
- D + (2/3/4/5/6/8/10/12) + (32 or 28) + (0/1/2) + (0/3/4) + (F or E) + (N or L) + (W/F/B)
- **Example:** D83200 ENB (8 X 32L External units with natural gas and no storage tanks, back-to-back installation)