

# Unvented cylinders

## Direct and indirect cylinders for all applications

The Dimplex SCxn cylinders supply all the hot water required for the modern home, providing rapid fill baths and invigorating showers to en-suite bathrooms and other domestic appliances at the same time.

### Energy saving feature

- 60mm CFC free insulation reduces heat loss.

### User features

- Mains pressure hot water.
- Fast filling baths.
- Powerful invigorating showers.
- Simultaneous supply of water to all bathrooms.
- No cold water storage tank required, freeing up valuable living space.
- Long life low maintenance hot water supply.
- Backed by a big name in domestic heating.

### Installer features

- Duplex steel inner cylinder with 25 years guarantee.
- Internal expansion for quick easy installation.
- Tough plastic leather grain external coating resists scratching.
- No anode – reduces service requirements.
- CFC free foam injected insulation.
- 3kW incoloy 825 immersion(s) for longer life.
- Light-weight for easy handling to site.
- Water inlet diffuser prevents cold and hot water mixing.

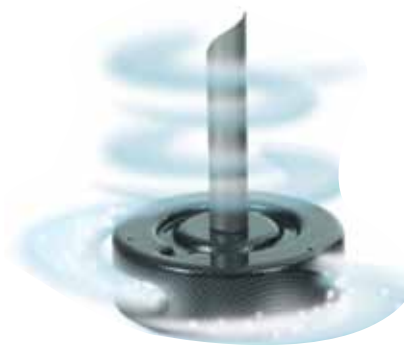
### Commercial cylinders

In addition to this range of domestic cylinders, we offer a range of bespoke commercial cylinders designed to meet your exact requirements. With a choice of sizes from 450 to 4000 litres and coil size and number available in sizes from 14 - 140kW. Please visit [www.dimplex.co.uk/cylinders](http://www.dimplex.co.uk/cylinders) for more information or ring our renewables design team.



SCxn range

### Inlet Diffuser



# Technical specification

## Immersion

3kW @240V 50Hz (permanent connection to supply through a double pole linked isolated switch with minimum breaking capacity of 13A).

## Outer Casing

Dove Grey leather grain plastic coated steel.

## Insulation

CFC free 60mm ODP zero fire retardant.

## Water Supply

1.5bar 15 litres per minute minimum, 16bar maximum.

## Inner Cylinder

Duplex stainless steel.

## Pressure Tests

All tested to 15bar.

## Primary Coil

22mm stainless steel pipe.

## Hot Water Outlet

22mm stainless steel pipe.

## Thermostat

*Direct units*

– Integral immersion thermostat and cut-out.

*Indirect units*

– External dual thermostat and cut-out.

## T&P

Factory fitted 7bar 90°C.

## Safety kit

Pressure reducing valve, expansion relief valve; tundish; motorised valve (indirect only) supplied.

## Expansion

Internal air gap

– no additional expansion vessel required.

## Approvals

WRAS; BBA.

## Guarantee

25 years for inner cylinder; 2 years on immersion (excluding affects of limescale) and 5 years on other components.

**GWP** (Global Warning Potential) 1.

### Unvented Cylinder Requirements

Property	Indirect	Direct
1 bed / 1 shower	SCxn80i	SCxn130d
2 bed / 1 bath & 1 shower	SCxn130i	SCxn150d
3 bed / 1 bath & 2 shower	SCxn150i	SCxn175d
4 bed / 1 bath & 2 shower	SCxn175i	SCxn215d
4 bed / 1 bath & 3 shower	SCxn215i	SCxn255d
5 bed / 2 bath & 2 shower	SCxn255i	SCxn305d
6 bed / 2 bath & 3 shower	SCxn305i	SCxn305d

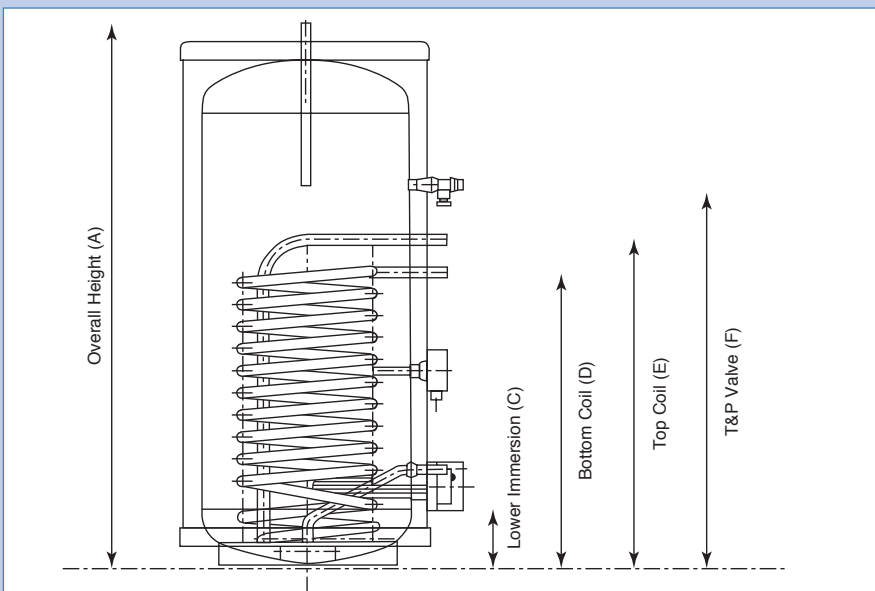
Figures are provided as a guide – usage and space restrictions may dictate alternative size cylinders.

### Weight (Kg)

Capacity	Direct empty	Direct Full	Indirect Empty	Indirect Full
80L	27	142	29	143
130L	30	185	32	187
150L	32	207	35	210
175L	37	237	40	240
215L	43	258	48	264
255L	50	305	55	311
305L	59	364	65	370

### Coil Size (Indirect Only)

SCxn80i	8.4kW
SCxn130i / SCxn150i	14.8kW
SCxn175i / SCxn215i	20kW
SCxn255i / SCxn305i	20kW



### Dimensions relative to floor level

Product	Capacity (litres)	Cylinder Diameter (mm)	Overall height (mm) (A)	Immersion	Dimensions relative to floor level						Performance		
					Lower Immersion (mm) (C)	Top Immersion (mm)	Bottom Coil (mm) (D)	Top Coil (mm) (E)	T&P Valve (mm) (F)	Cold Inlet (mm)	Heat-up (mins)	Reheat Time (mins)	Heat loss in 24hrs (kw/24hr)
<b>DIRECT</b>													
SCxn80d	80	574	645	1	196	N/A	-	-	356	182	64	53	0.98
SCxn130d	130	574	958	2	196	570	-	-	626	182	115	90	1.10
SCxn150d	150	574	1086	2	196	648	-	-	745	182	138	104	1.27
SCxn175d	175	574	1243	2	196	753	-	-	891	182	167	124	1.43
SCxn215d	215	574	1485	2	196	821	-	-	1116	182	212	153	1.76
SCxn255d	255	574	1753	2	196	1269	-	-	1365	182	263	184	1.86
SCxn305d	305	574	2029	2	196	1526	-	-	1620	182	313	220	2.02
<b>INDIRECT</b>													
SCxn80i	80	574	645	1	196	-	182	445	356	182	33	23	0.98
SCxn130i	130	574	958	1	196	-	182	445	626	182	28	21	1.10
SCxn150i	150	574	1086	1	196	-	182	445	745	182	33	24	1.27
SCxn175i	175	574	1243	1	196	-	182	445	891	182	27	24	1.43
SCxn215i	215	574	1485	1	196	-	182	445	1116	182	35	30	1.76
SCxn255i	255	574	1753	1	196	-	182	445	1365	182	42	35	1.86
SCxn305i	305	574	2029	1	196	-	182	445	1620	182	50	42	2.02