FUJIFILM

Acuity LED 1600

Acuity LED 1600 UV inkjet printer

Large format hybrid printer driven
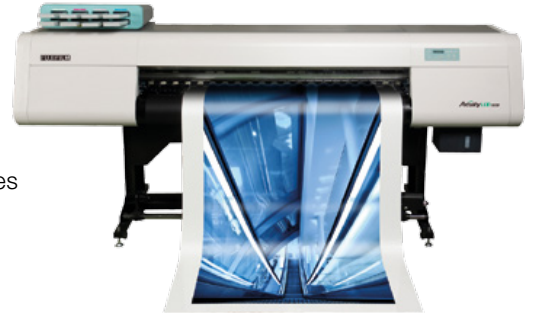by Fujifilm technology, designed
for creativity

Acuity LED 1600

High performance Fujifilm LED UV

LED UV has the capability to be a leading inkjet technology in the future. LEDs produce very little heat which means they can work with heat-sensitive media. They consume far less energy than conventional UV lamps and last up to ten times longer. Above all they are much kinder to the environment – a concern for printer operators and their customers alike.

The Fujifilm Acuity LED 1600 is a large format hybrid printer designed to give exceptional print results in the most environmentally friendly way. Fujifilm's unique, purpose-designed ink, printheads and curing system work in perfect harmony to give smooth, near-photographic results at impressive print speeds.

LED UV is better for your business

High definition, accurate print with a range of finishes

Buyers want media that is easier to recycle

Uses a fraction of the energy of conventional curing systems

LEDs work instantly without a warm-up delay

LEDs are safe to work with

LEDs are suitable for both roll and rigid applications

Acuity LED is better for the environment

Prints recyclable polyolefin films
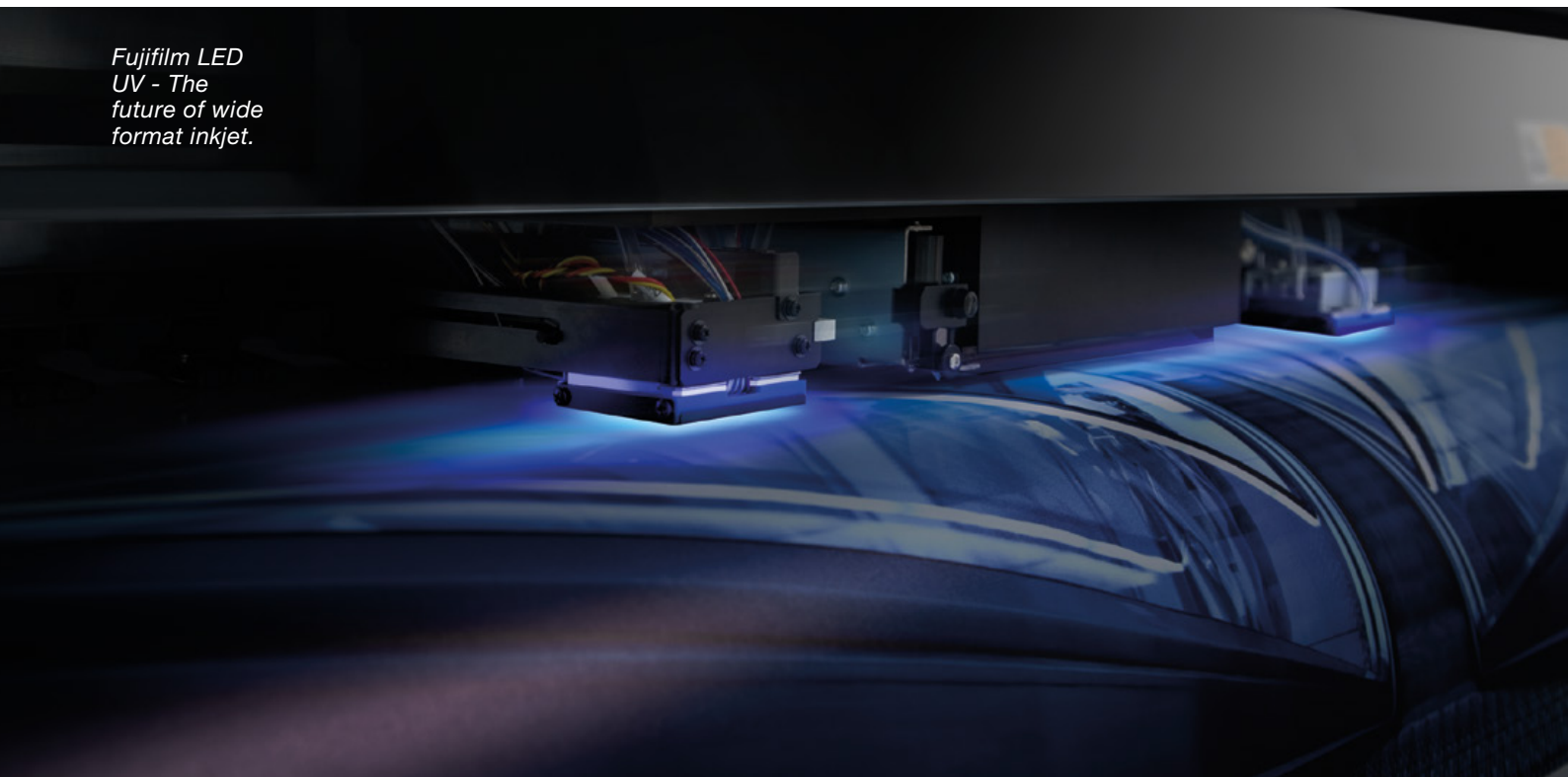
Long life, low energy LED UV lamps

No wasted heat

No volatile organic compounds (VOCs) or ozone

No toxic metal halide lamps

Reusable ink cartridge cases

Fujifilm LED UV - The future of wide format inkjet.

Fujifilm Acuity LED UV printer

Although it has the most sophisticated print science behind it, the Acuity LED 1600 is an easy-to-use, large format hybrid printer that's equally suitable for an office, studio or workshop. It is amazingly versatile and prints stunning images onto a wide range of roll or rigid media.

- ► Excellent coverage with strong, vibrant colours
- ► Eight colour ink set including CMYK plus light cyan, light magenta, white and clear
- ► Prints colours, white or varnish together in one pass
- ► Low energy consuming, long life LEDs
- ► Fujifilm spot colour matching software and RIP included
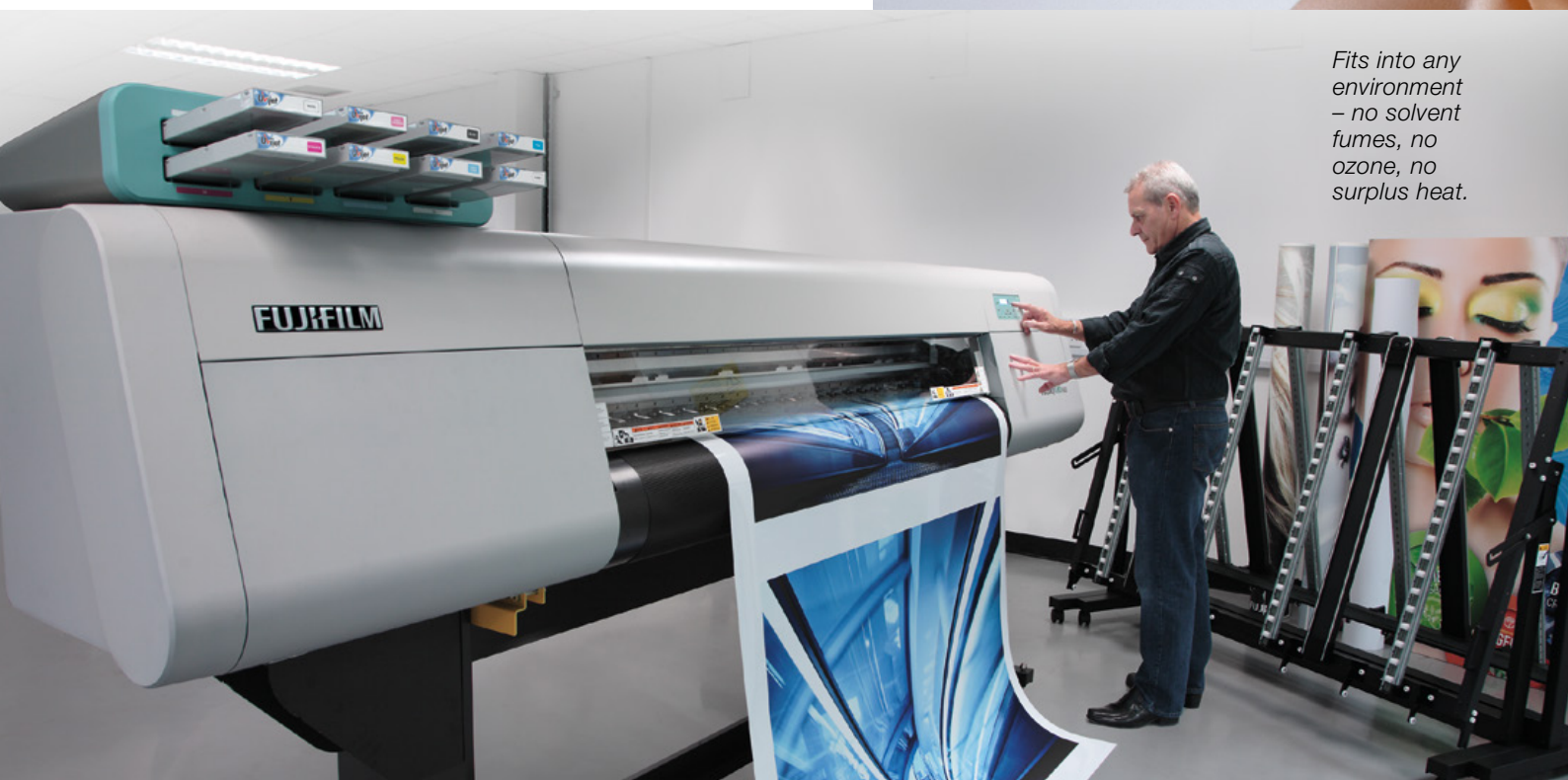- ► Flatbed feed and receive tables

Fujifilm VersaDrop™ imaging

VersaDrop™ multi-pulse jetting delivers droplets of different sizes according to the definition needed by the image. This gives both smooth changes in tone and rock-solid spot colours. VersaDrop™ achieves phenomenal accuracy by forming droplets at the nozzle rather than in flight to the substrate, where they can be disturbed by air turbulence above the media.

Acuity LED with 6-colours
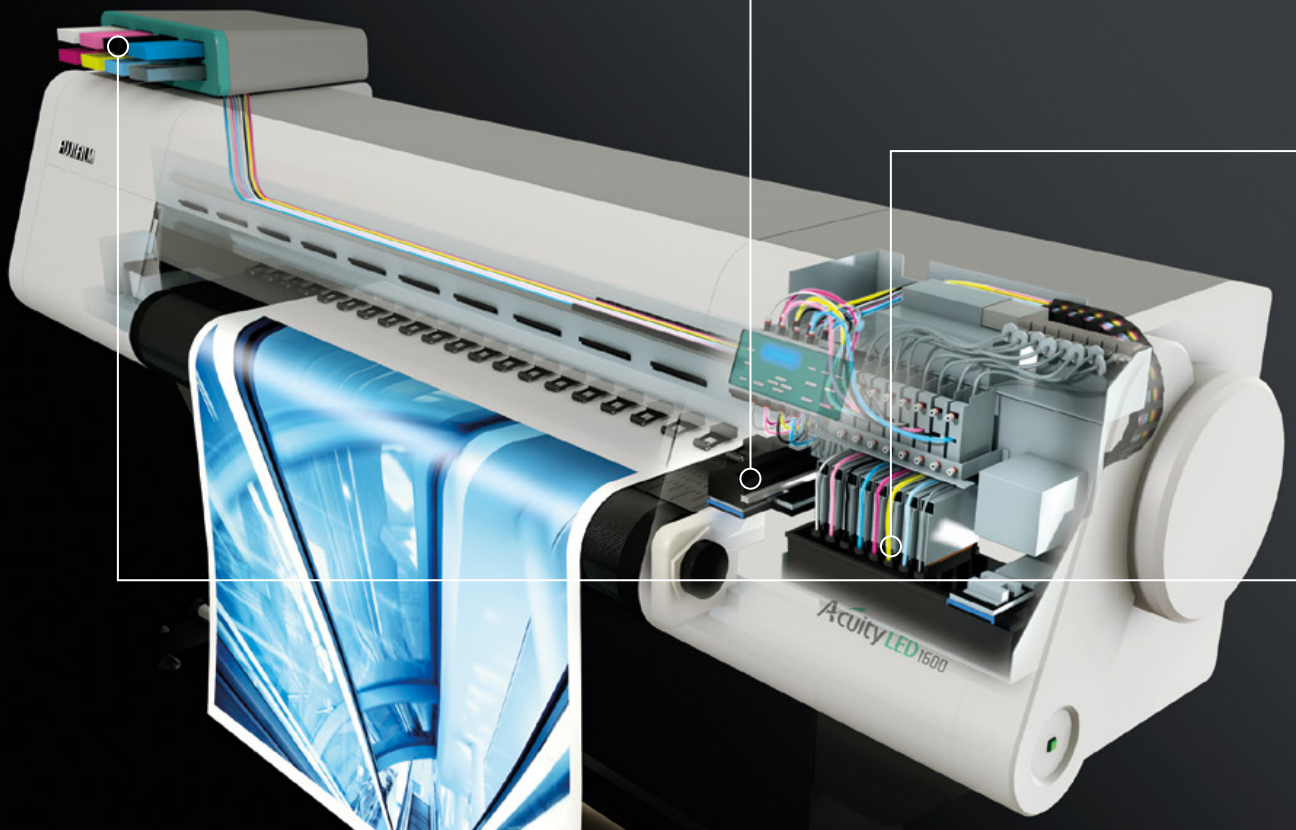
Standard CMYK printer

Fits into any environment – no solvent fumes, no ozone, no surplus heat.

Driven by Fujifilm technology

At the heart of the Acuity LED 1600 lie ink, printheads and LED curing systems that were designed for each other. They are accurately tuned to give brilliant images, at speed, even on traditionally difficult to print media.

The combination of technology is clever enough to allow the Acuity LED 1600 to print colour, white or varnish simultaneously in one pass without re-rolling.

It's a state-of-the-art technology made possible by Fujifilm's commitment to research and development. The result is an outstanding printer which is flexible and reliable with minimal environmental impact.

Developing the inkjet systems of the future

Fujifilm's investment in R&D is unprecedented at over €1 billion every year. Our expertise in chemistry and surface coatings, electronics, optics and software have driven pioneering innovations over the last 70 years.

Our expertise in imaging and inkjet technologies is second to none. At our Advanced Marking Research Laboratory in Tokyo, we are combining benchmark printhead, software and ink technologies to create the industrial inkjet printing systems of the future.
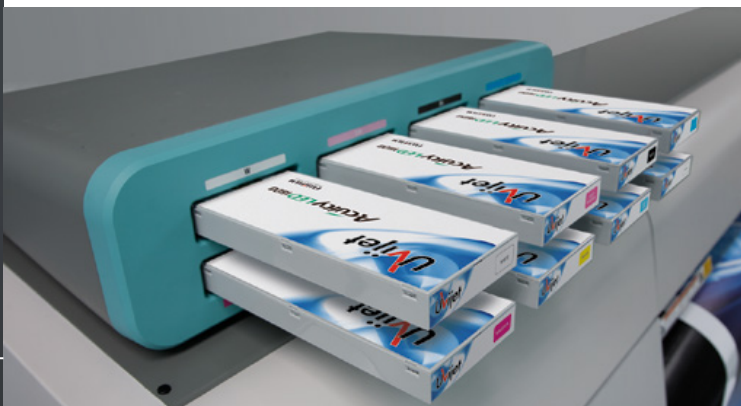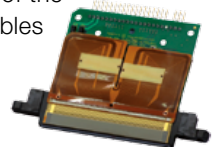
Fujifilm LED UV lamp system

The Acuity LED 1600's patented full LED lamp system is perfectly tuned to cure its own Uvijet ink in a two-stage curing process. Small, low-dose LED pinning lamps close to the printhead freeze the dot, while the main LED curing lamps fully cure the print which is ready to use straight away. Adjustable lamp positioning enables the curing to be finely controlled.

Fujifilm Dimatix heads

The Acuity LED 1600 uses eight Q-class printheads. These high frequency heads are both precise, fast, and have a track record of long life in high performance production. The combination of VersaDrop™ multi-pulse jetting technology and accurate control of the jetting, pinning and curing process, enables the Acuity LED 1600 to produce quality print at fast print speeds.
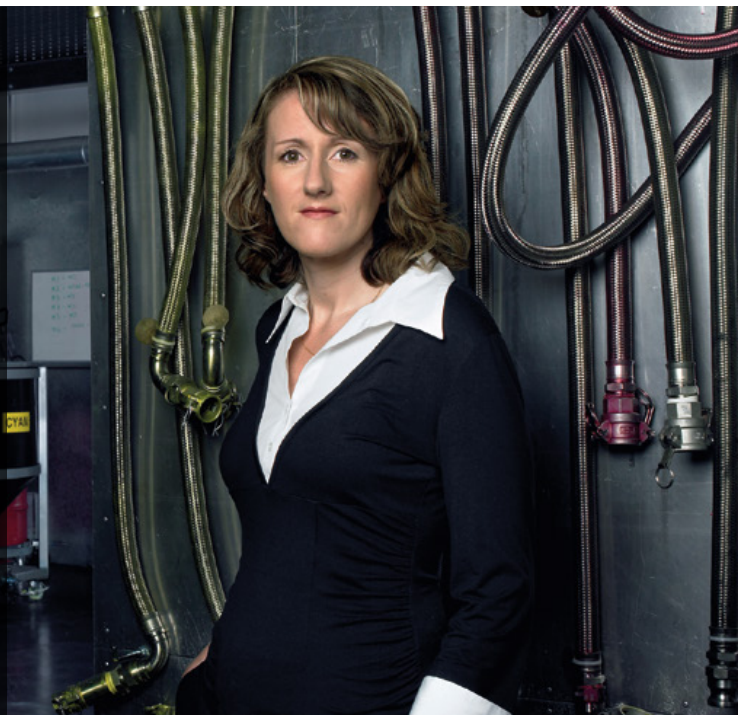
Fujifilm Uvijet inks

Uvijet ink systems are renowned in the industry through Fujifilm's high-productivity wide format printers. Made using Fujifilm's Micro-V ultrafine dispersion technology, enabling higher pigmentation, they produce strong, vibrant images and a wide colour gamut. The Acuity LED UV's dedicated eight-colour UV LED ink set includes white and clear varnish. The Acuity LED 1600 can apply colours, white or varnish in a single pass, offering a host of creative possibilities.

"Our innovation made UV inkjet a reality."

Dr Carole Noutary
Digital Inks Development, Fujifilm Speciality Ink Systems

It took some serious science from Carole and her colleagues at Fujifilm Speciality Ink Systems to crack the problem of inkjet printing with UV-curable inks. Their expertise helped to create a UV ink with particles small enough to work reliably through an inkjet printhead, opening up a whole new market in the process.
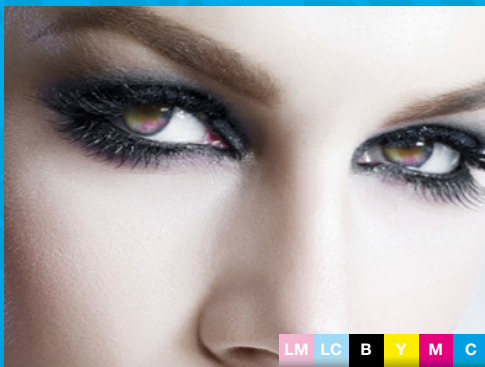
Profit from your creativity

The Acuity LED 1600 is a winner for one simple reason – it's a profit generator. LEDs only use a quarter of the energy of conventional UV lamps, and they last ten times longer. The printer can also tackle a huge range of roll and rigid applications including heat-sensitive film and non-PVC media, which buyers are demanding more and more. It is built to breeze through all the standard applications, including posters, window displays, backlit signs, indoor and outdoor signs, point of purchase and packaging. But with white and clear inks as standard, the Acuity LED 1600 can also produce high added-value work.
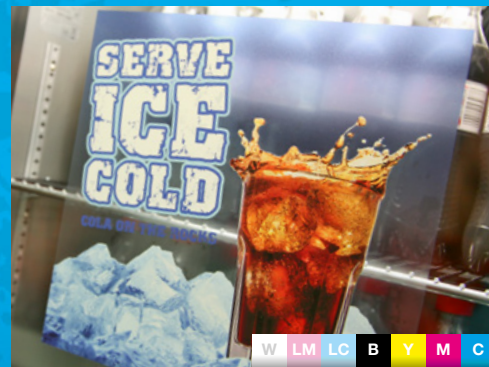
Near photographic quality

Achieve smooth tones and outstanding close-up clarity thanks to light inks, variable drop printheads and dot gain control.

White

High density white ink can be printed with colours in one pass. It makes a perfect, high-opacity barrier for clear and coloured media.

Creative Spot Clear

Clear ink offers the luxury to highlight or enhance print with high-gloss spot finishes.

Vibrant colours

Produce high impact vibrant images on a wide range of media.

Fujifilm spot-colour matching software

Get the colour spot on for every media. Match any colour in minutes with Fujifilm's simple-to-use software.

Six colours of pigment-rich ink, with an enhanced green, yellow and red gamut can print accurate spot colours.

euromedia

approved
meDIa
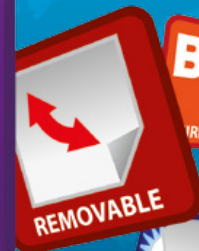**Acuity LED 1600**

The creative combination

Whatever you need – media, display solutions and finishing tools – Fujifilm has tested them all and selected the best for it's euromedia brand. The comprehensive media range includes hundreds of products for large format printing, including Acuity LED 1600 approved materials. Fujifilm euromedia experts are on hand to guide and advise on how to get the best from your print.

Visit www.euromedia.eu.com

BACKLIT

UVC

REMOVABLE

B1
FIRE-RAT

PVC
FREE

OUTDOOR

ANTI-UV

SOLVENT

BLOCKOUT

Rigid and flexible media

The Acuity LED 1600 converts quickly from roll media to rigid. It gives excellent results on PET film, PETG, self adhesive vinyl and conventional PVC, stock paper and board. The Acuity LED 1600 uses the same ink for both rigid and roll applications, avoiding duplicate stock and shelf-life concerns.

Technical specification

Physical characteristics	
Printing technology	LED UV inkjet
Max. print width	1610 mm
Print length tolerance	Error of ± 0.3% of distance travelled, or ± 0.3mm, whichever is greater.
Max. media thickness	13 mm Printer tables included for printing on rigid substrates
Max. media weight	Rigid: 12 kg, Roll: 25 kg
Printhead	FUJIFILM Dimatix Q-class printheads
Fujifilm Uvijet UV inks	Fujifilm Uvijet LL LED UV curable ink 8 colours (cyan, magenta, yellow, black, light cyan, light magenta, white, clear)
Physical dimensions	3220 (W) x 780 (D) x 1524 mm (H)
Weight	Printer - 280 kg, Tables - 50 kg
Power	AC 100-120 V, 200-240 V, 50/60 Hz
Interface	USB 2.0

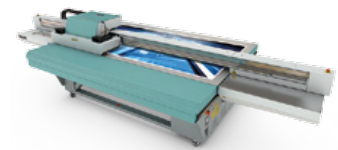| Print modes & speeds			
Mode	No of passes	Resolution (dpi)	Max speed (m²/h)
Express	6 pass bi-di	600 x 300	30
Production	10 pass bi-di	600 x 500	20
Standard	16 pass bi-di	900 x 800	13
Quality	24 pass bi-di	1200 x 1200	8.3
High Quality	48 pass bi-di	1200 x 1200	4.2

Acuity LED 1600

The Acuity series

All printers in the Acuity series offer supreme print quality, at production speeds and can handle a wide range of applications.

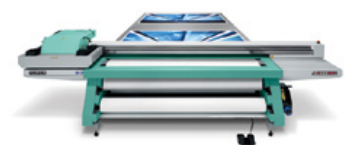| Machine	Print Speed	Bed Size	Roll
Acuity LED 1600	30 m²/h	1.6 m width	✓
Acuity Advance Select	24.5 m²/hr	2.5 x 1.25 m	Optional
Acuity Advance Select X2	25.3 m²/hr	2.5 x 3.05 m	Optional
Acuity Advance Select HS	46.3 m²/hr	2.5 x 1.25 m	Optional
Acuity Advance Select HS/X2	49.7 m²/hr	2.5 x 3.05 m	Optional

Acuity Advance Select and Acuity Advance Select HS with standard bed size

Acuity Advance Select X2 and Advance Select HS X2 with double bed size

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