

FUJITSU



Split Air Conditioner
Nordic Collection



FUJITSU GENERAL LIMITED

Fujitsu General's Air Conditioners Designed for

Nordic Performance

Fujitsu General's air conditioner has been designed to handle the frigid Nordic spec. The outdoor unit has a built-in heater to keep it from freezing during the freezing cold mid-winter season. The air conditioner uses highly cold resistant components that were designed to prevent freezing and meet CSA standards* to provide comfortable heating even when temperatures fall to -25°C. In addition, the high-performance DC twin rotary compressors, large heat exchanger, and Fujitsu General's proprietary PAM inverter control provide high heating capability even during low outdoor temperatures.

* CSA = Canada Standard Association: Adapts parts which achieves -30°C standard

Nordic Technology

Keeps rated
heating capacity even
at **-15°C**
outdoor temperature.
*LZ, LT models

Powerful Heating

High Efficiency Heat Exchanger

Heat exchanger

Cross-flow fan

Powerful heating capacity even during low ambient temperature

Heating capacity at low ambient temperatures is greatly enhanced due to large heat exchanger volume and large cross-flow fan on indoor unit.

- Heat exchanger volume approx. 2 times*
- Cross-flow fan volume 13% larger!*

*Than current model

Corresponds to
heating operation
at **-25°C**
outdoor temperature.
*All models

Anti-freezing Design

High Performance New Outdoor Unit

Steel material &
wide opening structure

High efficiency
large heat exchanger

Base heater

Wide machinery space

Anti-freezing parts

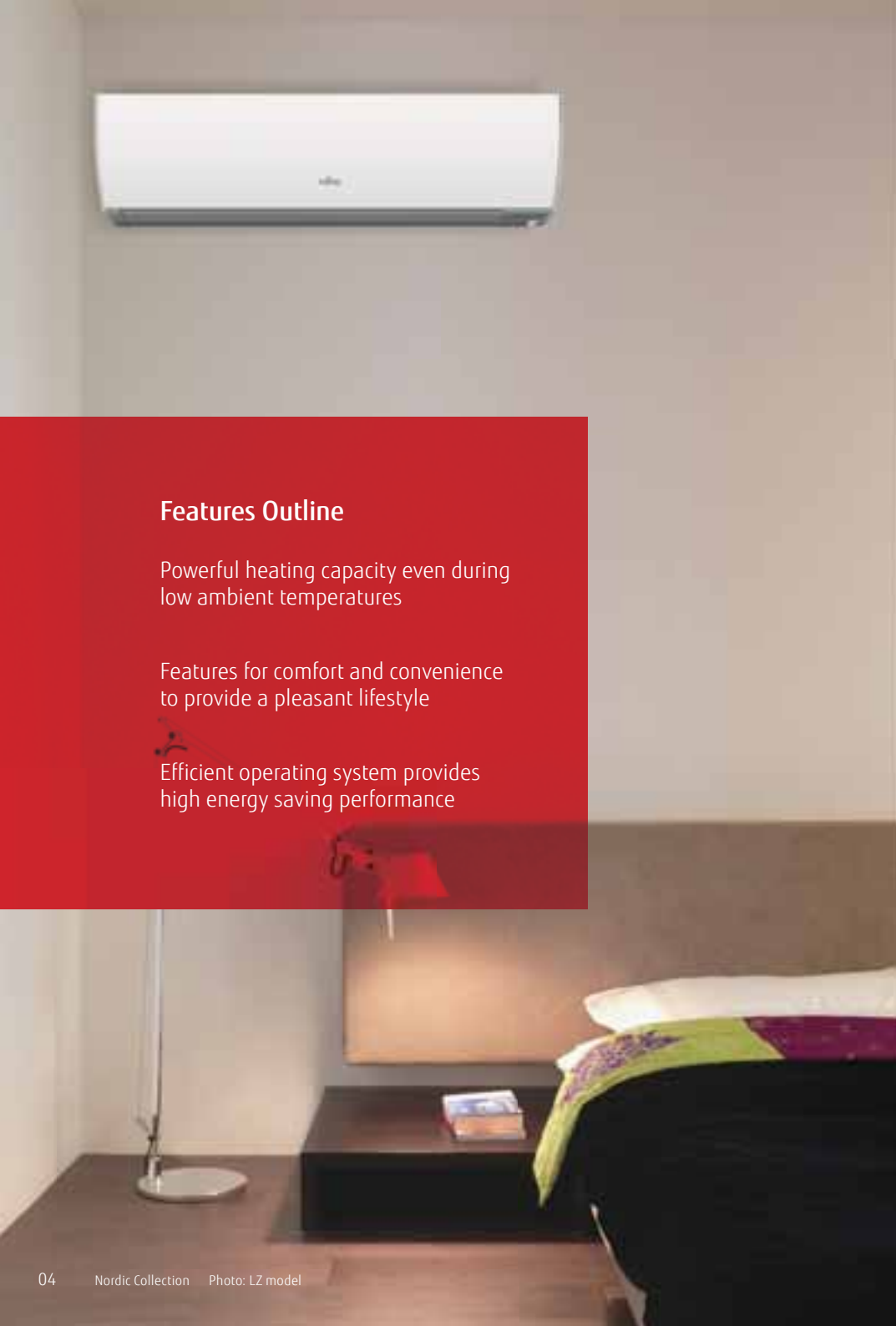
High performance
DC twin rotary compressor

Anti-freezing

- **Steel material & wide opening structure:** Avoid freezing easily
- **Wide machinery space:** Preventing the contact of each part even when freezing
- **Base heater:** Enough capacity of the heater and its best layout
- **Anti-freezing parts:** Wire and electronic parts under low ambient temperature correspondence

High performance

- High efficiency large heat exchanger
- High performance DC twin rotary compressor



Features Outline

Powerful heating capacity even during low ambient temperatures

Features for comfort and convenience to provide a pleasant lifestyle

Efficient operating system provides high energy saving performance

Nordic Collection

Wall Mounted

Combining high energy saving and strong heating for foot zone.

Hi-grade range series

NEW



LZ model 6 page
9/12/14 class

Comfort

Powerful Heating at -15°C

Power Diffuser




Double Swing Automatic

Energy Saving

Save Human Sensor

Nordic Spec.

Anti-freezing Design

		Compact Floor
Aesthetic exterior with strong heating performance.	Superior in the heating for foot zone with standard functions.	Compact body and strong heating for foot zone with standard functions.
Designer range series	Standard range series	Standard range series
		
LT model 8 page 9/12/14 class	LM model 10 page 9/12/14 class	LV model 12 page 9/12/14 class
Powerful Heating at -15°C		Powerful Heating at -7°C
		Power Diffuser
		2-way Airflow
Save Human Sensor		
Anti-freezing Design		Anti-freezing Design
		Anti-freezing Design

NEW

Hi-grade range series

Human sensor



Human sensor



Combining high energy saving
and strong heating for foot zone.

Hi-grade range series

High heating capacity till -15°C ambient!

Heating capacity at low ambient temperatures is greatly enhanced due to large heat exchanger volume and large cross-flow fan on indoor unit.

Comfort

Power diffuser

An additional louver that opens based on monitoring sensors to quickly enhance immediate comfort needs.

Double swing automatic

Complex swing action of flaps enables automatically to swing both horizontal and vertical directions.



Powerful mode

Operation at maximum airflow and compressor speed, and quickly makes the room comfortable.



High energy saving

Achieved top rank A+++ seasonal efficiency

New LZ models of 9 class achieved top rank A+++ seasonal efficiency for both heating and cooling. Fujitsu General advanced inverter technology and high performance components provide high efficiency and low energy consumption.

9 class **A+++** **SCOP: 5.31** 9 class **A+++** **SEER: 9.51**

Save human sensor control

Human sensor catches movement of people presence in a room. Operation adjust to reduce waste and save energy.



LZ

 model

Wall Mounted

ASYG09LZCA 9 class

ASYG12LZCA 12 class

ASYG14LZCA 14 class

Optional parts

Wireless LAN Interface: UTY-TFNXZ1

Wired Remote Controller: UTY-RVNYM, UTY-RNNYM

Simple Remote Controller: UTY-RSNYM

Communication kit: UTY-TWBXF1

External Connect Kit: UTY-XWZXZ5



Wireless R.C.



For ASYG09/12/14LZCA

Human sensor 

Aesthetic exterior
with strong heating performance.

Designer range series



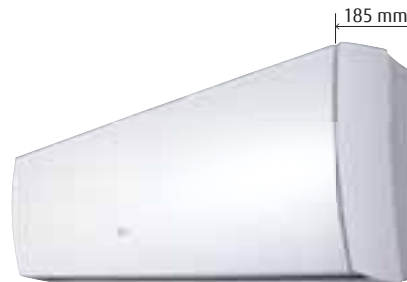
High heating capacity till -15°C ambient!

Heating capacity at low ambient temperatures is greatly enhanced due to large heat exchanger volume and large cross-flow fan on indoor unit.

Slim design

Depth 185 mm

Slim design is realized by high density multi-path heat exchanger and high efficiency wind blower.



Comfort

Powerful mode

Operation at maximum airflow and compressor speed, and quickly makes the room comfortable.



High energy saving

Achieved top rank seasonal efficiency

LT models of 9, 12 classes achieved top rank seasonal efficiency. Fujitsu General advanced inverter technology and high performance components provide high efficiency and low energy consumption.

9,12 classes **A++** SCOP: 4.60 9,12 classes **A+++** SEER: 8.50

Save human sensor control

Human sensor catches movement of people presence in a room. Operation adjust to reduce waste and save energy.



LT

model

Wall Mounted

ASYG09LTCB 9 class

ASYG12LTCB 12 class

ASYG14LTCB 14 class

Optional parts

Wireless LAN Interface: UTY-TFNXZ1

Wired Remote Controller: UTY-RVNYM, UTY-RNNYM

Simple Remote Controller: UTY-RSNYM

Communication Kit: UTY-TWBXF

External Connect Kit: UTY-XWZXZ5



Wireless R.C.



For ASYG09LTCB



For ASYG12/14LTCB



Superior in the heating for foot zone
with standard functions.

Standard range series

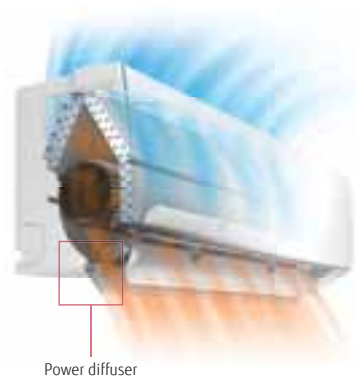
High heating capacity till -7°C ambient!

Heating capacity at low ambient temperatures is greatly enhanced due to large heat exchanger volume and large cross-flow fan on indoor unit.

Comfort

Power diffuser

An additional louver that opens based on monitoring sensors to quickly enhance immediate comfort needs.



Powerful mode

Operation at maximum airflow and compressor speed, and quickly makes the room comfortable.



LM_{model}

Wall Mounted

ASYG09LMCB 9 class

ASYG12LMCB 12 class

ASYG14LMCB 14 class

Optional parts

Wireless LAN Interface: UTY-TFNXZ1

Wired Remote Controller: UTY-RVNYM, UTY-RNNYM

Simple Remote Controller: UTY-RSNYM

Communication Kit: UTY-XCBXZ2

External Connect Kit: UTY-XWZXZ5



Wireless R.C.



For ASYG09/12LMCB



For ASYG14LMCB



Compact body and strong heating
for foot zone with standard functions.

Standard range series

High heating capacity till -7°C ambient!

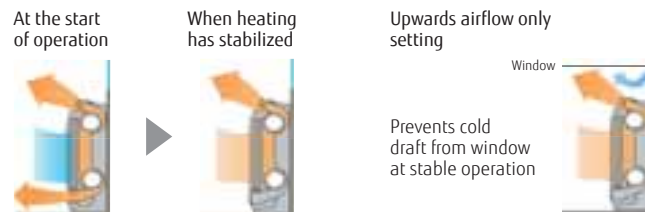
Heating capacity at low ambient temperatures is greatly enhanced due to large heat exchanger volume and large cross-flow fan on indoor unit.

Optimized 2-way airflow

2-way up and down airflow quickly warms the entire room.

Efficient operation can be performed by upward airflow after the operation has stabilized. Upwards airflow only setting can also be set when cold air from the windows or air on the feet is disturbing.

Heating



Quiet operation

Quiet mode

Quiet operation using a DC fan motor.



LV

model

Compact Floor

AGYG09LVCB 9 class

AGYG12LVCB 12 class

AGYG14LVCB 14 class

Optional parts

Wireless LAN Interface: UTY-TFNXZ1

Wired Remote Controller: UTY-RVNYM, UTY-RNNYM

Simple Remote Controller: UTY-RSNYM

Half Concealed Kit: UTR-STA

External Connect Kit: UTY-XWZXZ5



Wireless R.C.



For AGYG09/12/14LVCB

Specifications

Model		LZ model			LT model			LM model			LV model		
Model No.	Indoor unit Outdoor unit	ASYG09LZCA AOYG09LZCAN	ASYG12LZCA AOYG12LZCAN	ASYG14LZCA AOYG14LZCAN	ASYG09LTCB AOYG09LTCN	ASYG12LTCB AOYG12LTCN	ASYG14LTCB AOYG14LTCN	ASYG09LMCB AOYG09LMCBN	ASYG12LMCB AOYG12LMCBN	ASYG14LMCB AOYG14LMCBN	AGYG09LVCB AOYG09LVCN	AGYG12LVCB AOYG12LVCN	AGYG14LVCB AOYG14LVCN
Power Source	V/Ø/Hz	230/1/50			230/1/50			230/1/50			230/1/50		
Capacity	Heating	3.2 (0.9 ~ 7.2)	4.0 (0.9 ~ 7.4)	5.4 (0.9 ~ 8.9)	3.2 (0.9 ~ 5.4)	4.0 (0.9 ~ 6.5)	5.4 (0.9 ~ 7.0)	3.2 (0.5 ~ 5.2)	4.0 (0.9 ~ 5.7)	5.4 (1.1 ~ 6.0)	3.5 (0.9 ~ 5.5)	4.5 (0.9 ~ 5.7)	5.2 (0.9 ~ 6.1)
	Cooling	2.5 (0.9 ~ 4.65)	3.5 (0.9 ~ 4.8)	4.2 (0.9 ~ 6.4)	2.5 (0.9 ~ 3.5)	3.5 (1.1 ~ 4.0)	4.2 (0.9 ~ 5.4)	2.5 (0.5 ~ 3.2)	3.4 (0.9 ~ 4.15)	4.2 (1.1 ~ 4.8)	2.6 (0.9 ~ 3.8)	3.5 (0.9 ~ 4.2)	4.2 (0.9 ~ 5.2)
Input Power	Heating/Cooling	0.555/0.48	0.76/0.8	1.17/1.05	0.66/0.505	0.91/0.85	1.38/1.16	0.73/0.63	0.99/0.925	1.560/1.205	0.79/0.53	1.19/0.91	1.44/1.14
COP/EER	Heating/Cooling	5.77/5.21	5.26/4.38	4.62/4.00	4.85/4.95	4.40/4.12	3.91/3.62	4.38/3.97	4.04/3.68	3.46/3.49	4.43/4.91	3.78/3.85	3.61/3.68
Heating capacity at -7°C	kW	4.70	4.85	6.00	3.60	4.30	6.00	3.35	3.65	4.50	4.00	4.50	5.70
Heating capacity at -15°C		4.42	4.57	5.88	3.00	4.00	5.40	2.80	3.05	3.89	3.50	4.00	5.20
SCOP - Energy Efficiency Class		5.31 - A+++	4.93 - A++	4.44 - A+	4.60 - A++		4.00 - A+	4.10 - A+			4.20 - A+	4.10 - A+	4.00 - A+
SEER - Energy Efficiency Class		9.51 - A+++	8.60 - A+++	7.92 - A++	8.50 - A+++		7.40 - A++	6.50 - A++	6.90 - A++	7.10 - A++	7.00 - A++	6.90 - A++	6.80 - A++
Annual Energy Consumption	Heating/Cooling	659/92	993/142	1322/186	760/103	1156/144	1750/199	1024/135	1230/173	1537/208	1113/130	1431/178	1679/216
Sound Pressure Level (H-Q)	Indoor (Heating)	41-23	41-23	44-27	42-21	42-21	45-27	43-22	43-22	44-27	40-22	40-22	43-22
	Outdoor (Heating)	47	47	49	49	49	50	47	48	49	49	50	51
Sound Power Level (High)	Indoor (Heating/Cooling)	56/56		59/59	61/59	62/60	64/60	59/59		60/60	56/55		58/58
	Outdoor (Heating/Cooling)	58/52	59/57	61/61	64/63	65/64	65/65	63/63	65/65		65/63	66/64	67/65
Connection Pipe Diameter	Liquid/Gas	6.35/9.52		6.35/12.7	6.35/9.52		6.35/12.7	6.35/9.52		6.35/12.7	6.35/9.52		6.35/12.7
Maximum Pipe Length (Pre-Charge)	m	20 (15)			20 (15)			20 (15)			20 (15)		
Maximum Height Difference		15			15			15			15		
Drain Hose Diameter (I.D./O.D.)		13.8/15.8 to 16.7			13.8/15.8 to 16.7			13.8/15.8 to 16.7			13.8/15.8 to 16.7		
Operation Range (Outdoor)	Heating/Cooling	-25 to 24/-10 to 46			-25 to 24/-10 to 43			-25 to 24/-10 to 43			-25 to 24/-10 to 43		
Dimensions (H x W x D)	Indoor	295 × 940 × 270			282 × 870 × 185			268 × 840 × 203			600 × 740 × 200		
	Outdoor	620 × 790 × 290			540 × 790 × 290	620 × 790 × 290		540 × 790 × 290		620 × 790 × 290	620 × 790 × 290		
Product Weight	Indoor/Outdoor	14/39		14/40	9.5/36		9.5/40	8.5/36	8.5/39	8.5/40	14/40		
Refrigerant (Global Warming Potential)		R410A (2,088)			R410A (2,088)			R410A (2,088)			R410A (2,088)		
Refrigerant Charge	g	1.30		1.40	1.05	1.20	1.25	1.00	1.05	1.20	1.25		1.30

Note: Specifications are based on the following conditions.

Cooling: Indoor temperature of 27°CDB/19°CWB, and outdoor temperature of 35°CDB/24°CWB.

Heating: Indoor temperature of 20°CDB/15°CWB, and outdoor temperature of 7°CDB/6°CWB.

Pipe length: 5.0 m

Height difference: 0 m (Outdoor unit - Indoor unit)

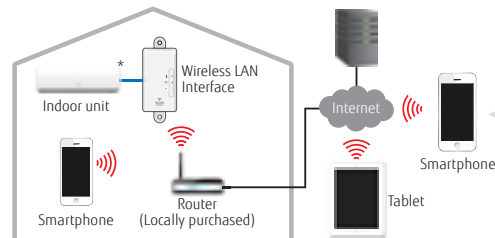
I.D.= Indoor Unit O.D.= Outdoor Unit

Optional parts

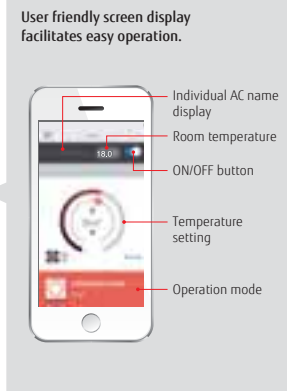
NEW Wireless LAN Interface UTY-TFNXZ1

Features

It is the most advanced solution to remotely manage an Air Conditioning system using all sort of mobile devices such as Smartphones, and tablets.



*: Wall mounted type needs communication kit.



Wired Remote Controller UTY-RVNYM



UTY-RNNYM



Simple Remote Controller UTY-RSNYM



Communication Kit UTY-TWBXF1/UTY-TWBXF2



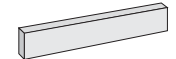
For LZ, LT models

UTY-XCBXZ2



For LM model

Half Concealed Kit UTR-STA























This kit is used to half conceal floor type indoor unit into the wall.

External Connect Kit UTY-XWZXZ5



Input: Operation
Output: Operation status, Error status,



Feature summary

	 Save human sensor	 Economy mode	 Powerful heating	 Power diffuser	 Powerful mode	 10°C heat operation	 Low noise mode	 Auto-changeover	 Double swing automatic	 Up/down swing flaps	 Automatic fan speed	 Auto restart	 Sleep timer	 Program timer	 Weekly timer	 Weekly + setback timer	 Filter sign	 Ion deodorization filter	 Apple-catechin filter	 Washable panel
LZ _{model}	●	●	●	●	●	●	●	●	●		●	●	●	●	●	○	●	●	●	●
LT _{model}	●	●	●		●	●	●	●		●	●	●	●	●	●	○	●	●	●	
LM _{model}		●		●	●	●	●	●		●	●	●	●	●		○	●	●	●	●
LV _{model}		●				●		●		●	●	●	●	●		○	●	●	●	●











○: Optional parts is necessary

Feature explanation

Energy saving function

-  **Save human sensor**
Human sensor detects the movement of people in the room and judges whether the energy saving operation.
-  **Economy mode**
Thermostat setting automatically changes according to the temperature to avoid unnecessary cooling and heating.

Comfortable function

-  **Powerful heating**
Keeping the rated heating capacity even when the outdoor ambient temperature is -7°C.
-  **Power diffuser**
An additional louver that opens based on monitoring sensors to quickly enhance immediate comfort needs.
-  **Powerful mode**
Operation at maximum airflow and compressor speed, and quickly makes the room comfortable.
-  **10°C HEAT operation**
The room temperature can be set to go no lower than 10°C, thus ensuring that the room does not get too cold when not occupied.
-  **Low noise mode**
Sound noise level of outdoor unit can be selected.
-  **Auto-changeover**
The unit automatically switches between heating and cooling modes based on your temperature setting and the room temperature.
-  **Double swing automatic**
Complex swing action of flaps enables automatically to swing both horizontal and vertical directions.
-  **Up/down swing flaps**
The up/down flaps automatically swing up and down.
-  **Automatic fan speed**
The micro-computer automatically adjusts the airflow effectively to follow the changes of room temperature.
-  **Auto restart**
In the event of a temporary power failure, the air conditioner will automatically restart in the same operating mode as before, once the power supply is restored.

Convenient function

-  **Sleep timer**
The micro-computer gradually changes the room temperature automatically to afford a comfortable night's sleep.
-  **Program timer**
This digital timer allows selection of one of four options: ON, OFF, ON > OFF or OFF > ON.
-  **Weekly timer**
Different on-off times can be set for each day.
-  **Weekly + setback timer** *Optional parts is necessary
Weekly + setback timer can set temperature for two times spans and for each day of the week.
-  **Filter sign**
Indicates the filter cleaning period by lamp.

LT model award

-  **iF Product Design Award 2012**
The award is given each year by the German international organization Industries Forum Design Hannover (iF) for industrial products from around the world.

-  **The Good Design Award** is sponsored by the Japan Institute of Design Promotion and is awarded once a year for an item of excellent design.

-  **Reddot Design Award Winner 2012**
The product design competition has existed since 1955. Its award, the "red dot", is an internationally recognised quality seal.

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