

SUPER UNIT

Excluded from high-efficiency motor regulations



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DAIKIN INDUSTRIES, LTD. Oil Hydraulic Division Oil Hydraulic Equipment

Get more than energy savings!! Saving energy is essential. However, the Daikin hydraulic system goes one step further than conventional models.

Daikin practices environmentally friendly production by promoting energy savings in the production field and by reducing waste through recycling.

In the pursuit of higher usability and more diversified functions, Daikin combined its original high-efficiency IPM motors and pump switching control technology. The Super Unit incorporates the multi-stage pressure/flow rate control system as well as the functions of conventional hydraulic units, resulting in the use of fewer valves.

Daikin intends to promote energy savings through advanced hydraulic systems with the aim of contributing to improvement of factory environments, and to continuously introduce hydraulic systems that lead the industry.



Combining Daikin's original high-efficiency IPM motors and hydraulic technology enables an unparalleled energy-saving effect and advanced functions.

Energy-saving technology that supports hybrid products

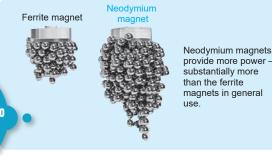
- Daikin was the first in the industry to introduce an interior permanent magnet synchronous motor (IPM motor) into air conditioners for household use.
 Daikin was also an early adopter in the industry of the IPM motor for use in industrial-use air conditioners. We have led the industry as a front runner in air conditioner energy-saving performance.
- Hybrid products equipped with variable speed motors, developed by making full use of Daikin's original energy-saving motor technology and its production capacity, help to achieve energy savings for factory equipment



Powerful neodymium magnets, the key to this improved energy-saving effect!

"Double torque" improves the energy-saving effect. Combining two rotational forces, "magnetic torque" generated by a

Combining two rotational forces, "magnetic torque" generated by a powerful neodymium magnet^{*1} and "reluctance torque"²², generates more power with less electricity.

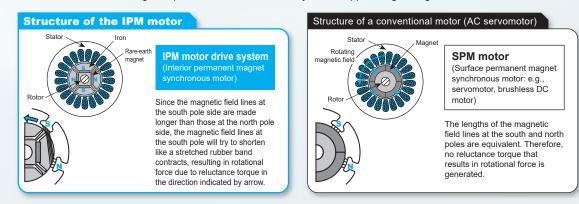


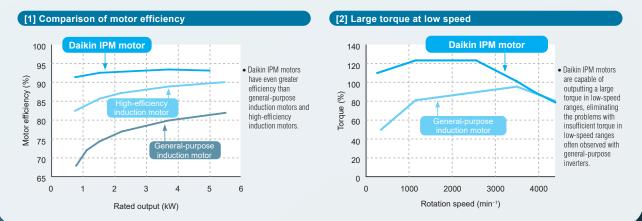
 *1: A compound of neodymium (Nd, rare-earth element), iron (Fe), and boron (B). Neodymium magnets are known to have superior magnetic properties.
 *2: Rotational force generated by attractive force (reluctance = magnetic resistance) between iron and a magnet.

Fundamental Principle of the IPM Motor

With a rare-earth permanent magnet deeply embedded in the rotor, the IPM motor uses an electromagnetic structure that maximizes magnetic torque (attractive/repulsive force between the coil and permanent magnet) and reluctance torque (force of the coil that attracts iron).

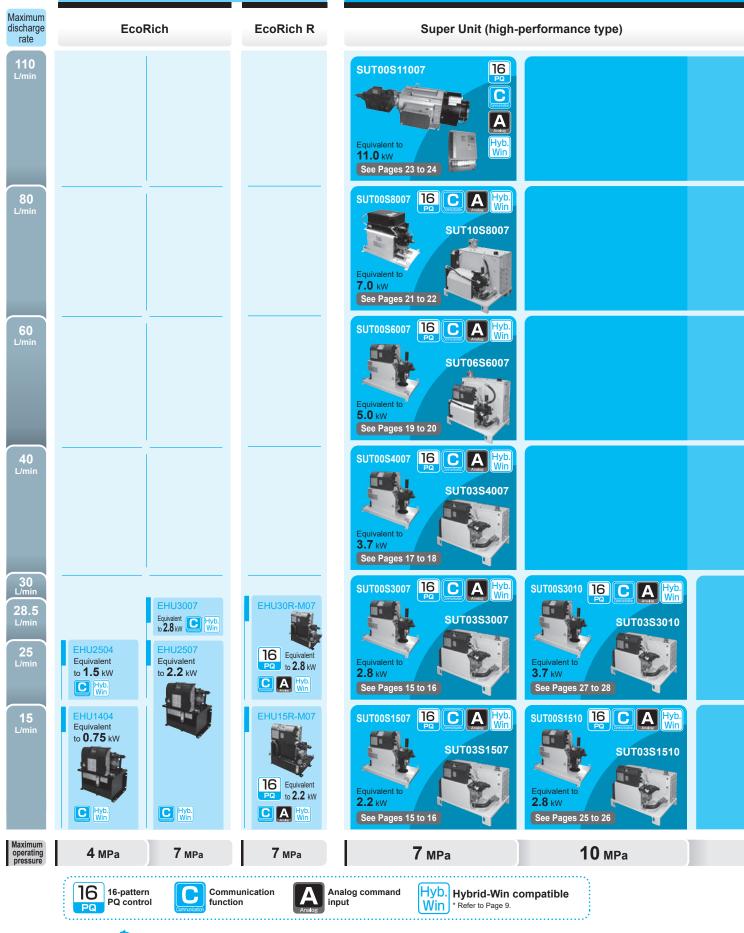
This structure achieves high torque and maximum efficiency while suppressing heat generation.





Hybrid Hydraulic UnitSpecifications vary depending on the machineModel ListThe Daikin product lineup provides various

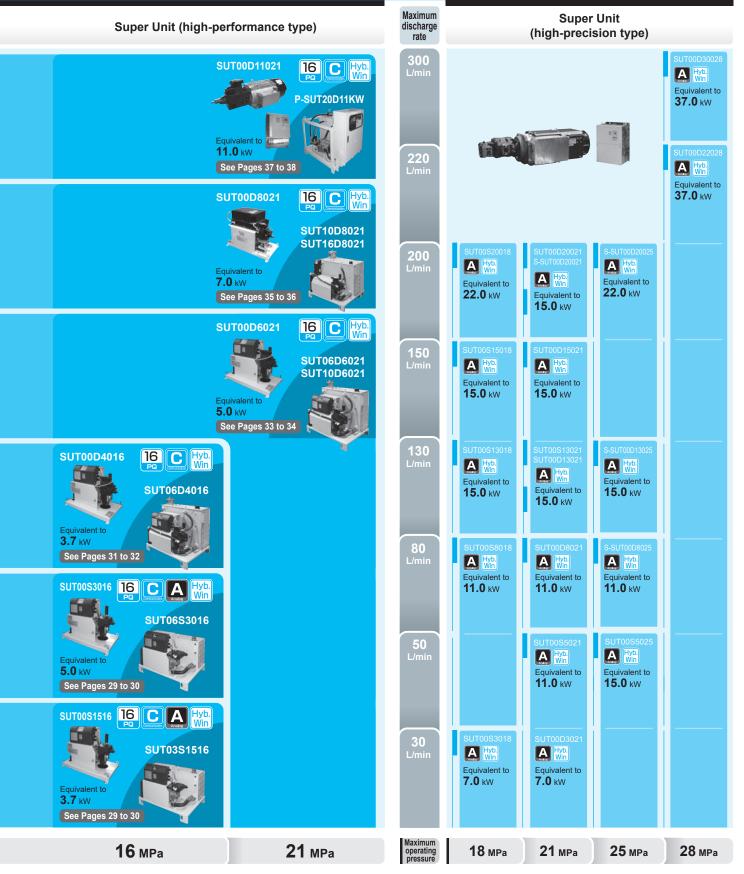
For machine tools





type. functions and capacities according to the machine type.

For general industrial machines



*1: The above motor capacities are given for guidance only and do not represent the standard capacities of general motors.

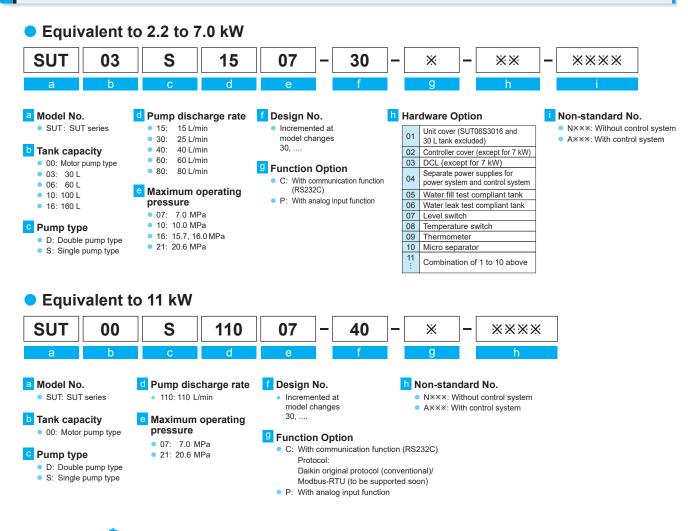
*2: When selecting a Super Unit, verify the specifications of each model by referring to "Pressure – Flow rate Characteristics (Typical)" on Pages 13 and 14 and "How to Select a Super Unit" on Page 49. For the purpose of making improvements, the specifications given in this catalog are subject to change without prior notice. Be sure to see the latest model chart.

List of Super Unit models

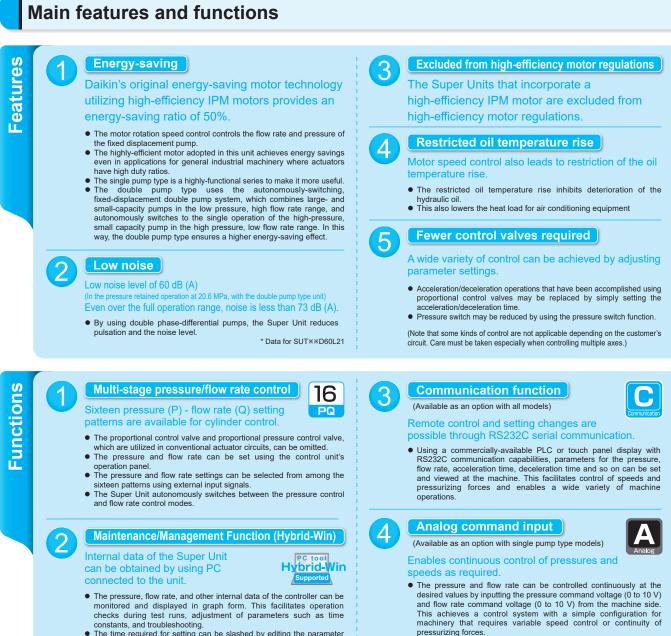
Maximum Maximum Maximum flow rate Tank operating pressure (MPa) Motor capacity Equivalent to 2.2 kW Series flow rate (L/min) Motor pump type Unit type apaci Page (L) (L/min) 10 20 30 40 50 60 70 80 90 100 110 SUT03S1507-30 2.2 70 15.2 SUT00S1507-30 30 15 to 16 SUT00S3007-30 SUT03S3007-30 2.8 7.0 28.5 30 SUT00S4007-30 SUT03S4007-30 17 to 18 3.7 7.0 39.7 30 61.1 SUT00S6007-30 SUT06S6007-30 5.0 7.0 60 19 to 20 Single 7.0 7.0 83.0 SUT00S8007-30 SUT10S8007-30 100 21 to 22 pump SUT00S11007-40 23 to 24 11.0 7.0 110.0 type SUT00S1510-30 2.8 10.0 15.2 SUT03S1510-30 30 25 to 26 3.7 25.6 SUT00S3010-30 SUT03S3010-30 30 27 to 28 10.0 3.7 16.0 SUT00S1516-30 SUT03S1516-30 30 15.2 29 to 30 SUT00S3016-30 SUT06S3016-30 50 16.0 25.6 60 7.0 Combination 41.0 3.7 SUT00D4016-30 SUT06D4016-30 60 31 to 32 15.7 Independent 16.0 SUT06D6021-30 7.0 Combination 61.1 60 5.0 SUT00D6021-30 33 to 34 Double 20.6 Independent 21.2 SUT10D6021-30 100 pump SUT10D8021-30 100 7.0 Combination 83.0 type 7.0 SUT00D8021-30 35 to 36 Independent 28.7 SUT16D8021-30 160 20.6 7.0 Combination 110 SUT00D11021-40 P-SUT20D11KW-40 37 to 38 11.0 200 20.6 Independent 40.5

Selecting the optimum model from a wide variety of Super Unit models

Nomenclature

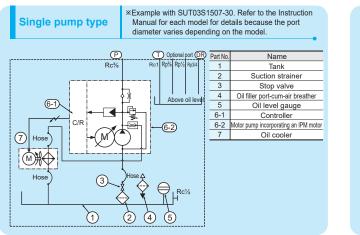


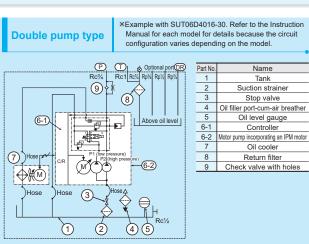




 The time required for setting can be slashed by editing the parameter settings on the PC and writing them to the unit in a batch. The ability to read and save settings facilitates management.

Super Unit hydraulic circuits (example for the unit type)





Features

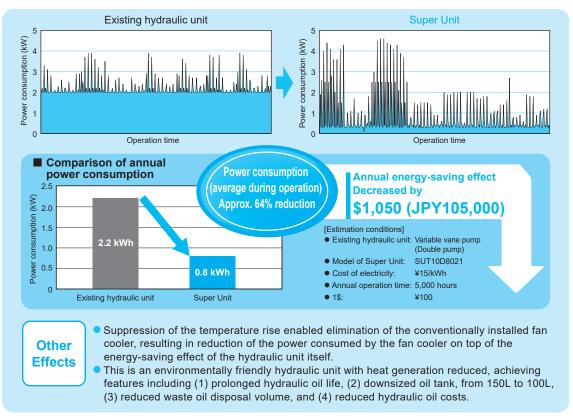
Feature 📕



With excellent energy-saving technology, the Super Unit can substantially reduce electricity costs. The control system can be easily upgraded by combining various Super Unit functions.

Energy-saving

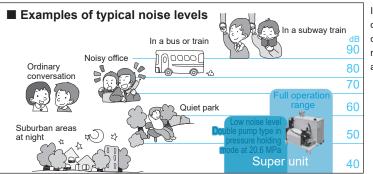
- Excellent cost effectiveness with energy-saving ratio of 50% (In pressure retained operation at 20.6 MPa)
- Through servo control of Daikin's original high-efficiency IPM motor, the Super Unit ensures both a high response speed and stable rotation speed control with fixed-displacement pumps. In pressure holding mode, the Super Unit autonomously reduces the motor rotation speed to the minimum value required to hold the pressure, thus ensuring energy savings of 50% or higher (compared with the conventional Daikin variable piston pump).
- The Super Unit can even provide an energy-saving effect with general industrial machinery in which actuators provide a high duty ratio, as well as in pressure holding mode.



Feature 2 Low noise

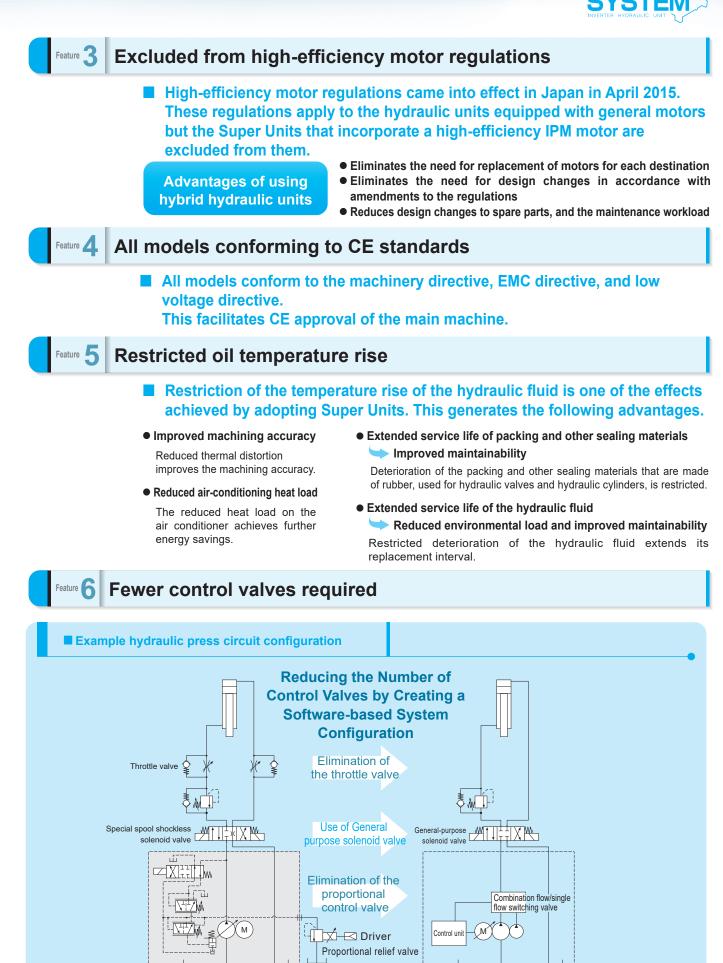
Low noise level of 60 dB (A) (In pressure retained operation at 20.6 MPa, with the double pump type unit) Even over the full operation range, noise is less than 73 dB (A).

• Running the motor at the minimum required rotation speed in pressure holding mode achieves a remarkable noise level reduction.



It is generally known that ordinary conversation can be conducted with a person one meter away in an environment at a noise level of 60 dB (A).





Conventional system configuration

Super Unit system configuration

Functions

Function



Multi-stage pressure/flow rate control (16 PQ control setting patterns)

Featured with standard models



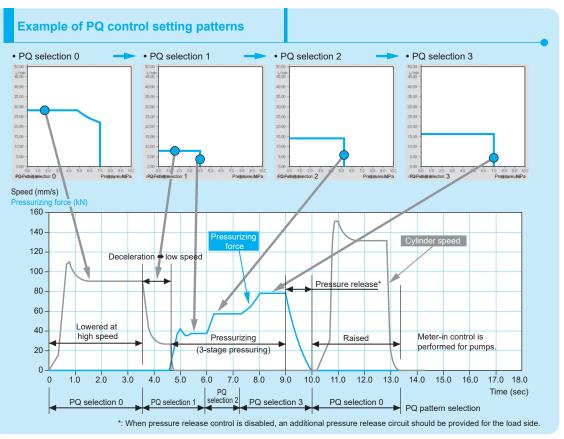
The force (pressure) and speed (flow rate) of the actuator (cylinder) can be controlled with 16 pressure (P) and flow rate (Q) setting patterns.

The proportional control valve and proportional pressure control valve, which are utilized in conventional actuator circuits, are not required. Once the pressure and flow rate have been set at the controller's operation panel, you can select 16 preset patterns using external input signals. The Super Unit autonomously changes the control mode from flow rate control to pressure control (example: flow rate control is

changed to pressure control at the cylinder stroke end). The solenoid valve that actuates the cylinder must be turned ON/OFF at the machine.

Smooth changing of force (pressure) and speed (flow rate)

Once acceleration time and deceleration time parameters are registered, the force or speed can be changed gradually during a pressure/flow rate setting change



Function

Maintenance/Management function (Hybrid-Win)

Featured with standard models



This PC utility reads data from Daikin hybrid systems (Super Unit, EcoRich, oil cooling unit, etc.) and manages it. Parameter setting and monitoring can be accomplished efficiently using the Windows application.



Displaying graphs

The pressure, flow rate, and other internal data of the controller can be monitored and displayed in graph form. This facilitates operation checks during test runs, adjustment of parameters such as time constants, and troubleshooting

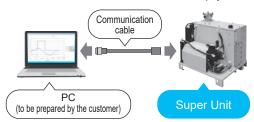
• Reading, writing, editing, and saving parameters

The time required for setting can be slashed by editing the parameter settings on the PC and writing them to the unit in a batch. The ability to read and save settings facilitates management.

- *: Hybrid-Win is utility software to monitor the internal status of Daikin hybrid systems using a PC. The software and its instruction manual can be downloaded from the website "https://www.daikinpmc.com/en/" free of charge by completing the user registration process. The communication cable is separately available.
- Some models require a dedicated separate monitor harness.
 It is possible to connect to a smart phone or factory LAN by adding an optional WiFi module. This is useful to facilitate the user's daily inspection/maintenance work and for remote monitoring.

Reading and saving the alarm history

This function enables quick identification of the parts that require maintenance and reduction of the downtime. The operating time display can serve as the guide for the timing to replace consumable parts or to conduct maintenance. Troubleshooting information including the diagnosis results of the cause of an alarm and action to take can be displayed.



Function Option





Communication function



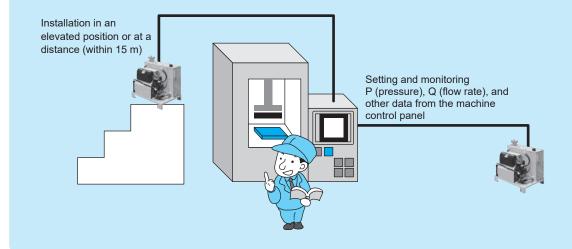
Remote setting of operating conditions

- · Operating condition setting of the SUPER UNIT possible from a distance
 - ·Various settings such as acceleration/deceleration time and pressure switch settings, as well as the pressure and flow rate, can be set remotely.
 - This makes it possible to control the hydraulic pressure operating conditions in synchrony with the control of the machine.

IoT-ready

- · Managing the pressure and flow rate from a machine
- •The information that the SUPER UNIT outputs during machine operation, such as pressure and flow rate, can be displayed on the monitor at a machine.
- •By continuously collecting data from the SUPER UNIT, it is possible to determine machining faults, diagnose machine failures, and utilize the data for predictive maintenance.
- * RS232C is adopted for the serial communication interface. (For RS485, please consult us.) Provide a controller such as a PLC or touch panel display with the RS232C communication function at the machine side. * For details on the communication procedure, refer to the communication/remote control function instruction manual.

Application of Super Unit Remote Operation and Communication Functions



Analog command input

Optional

function

The capability to specify the pressure and flow rate with voltage ranging from 0 to 10 V enables continuous hydraulic control as required. Real-time variation in response to commands facilitates condition settings at the machine side.

- A hydraulic control system for machinery that requires variable speed control or continuity of pressurizing forces can be realized with a simple configuration.
- A joystick or trimmer can be connected for real-time control.

Hardware Option



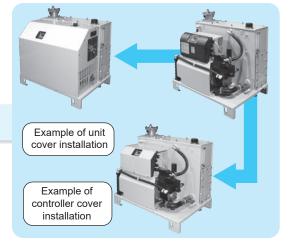
With unit cover

Optionally available for units with tank capacities of 60 L, 100 L, and 160 L (SUT06S3016-30 excluded)

• The cover protects the controller unit and piping.



Optionally available for models with motor capacities equivalent to 2.2 kW, 2.8 kW, 3.7 kW, and 5 kW



• The metal cover protects the controller unit.

Hardware 03 With DCL (DC reactor)

Optionally available for models with motor capacities equivalent to 2.2 kW, 2.8 kW, 3.7 kW, and 5 kW

- Appropriate when it is necessary to improve the power factor or reduce the harmonics of the power supply
- Optionally available for compact models with the capacity of 5 kW or smaller. Provided as standard for models with a capacity of 7 kW or greater.

Hardware **04** Separate power supplies for power system and control system

Optionally available for units with motor capacities equivalent to 2.2 kW, 2.8 kW, 3.7 kW, 5 kW, and 7 kW

• When an error occurs, only the main power supply is shut down and control power supply continues to carry current, thereby enabling the alarm code and internal status on occurrence of an error to be checked on the operation panel or through serial communication.



Water fill test compliant tank

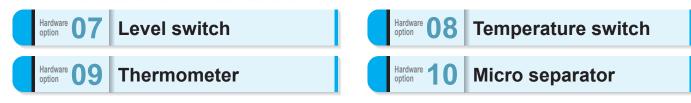


Water leak test compliant tank

Optionally available with all unit type models

• The water fill test, one of the adaptation criteria for the Fire Service Act, and the water leak test, Daikin original standard, are carried out. The tanks that pass the tests have compliance nameplates affixed and are delivered with the certificate. (Water fill test compliant tanks are not equivalent to Fire Service Act compliant tanks.)





Optionally available with all unit type models

• The accessories that can be fitted to the tank are provided as optional parts.

• The accessories can be purchased separately as optional parts. (See Page 44.)

List of Models with Options Installed

			Functio	n Option		ł	lardware Optio	n	
Pump specifications	Motor capacity	Model code	С	Ρ	With unit cover (01)	With controller cover (02)	With DCL (03)	Separated power supply for power/ control systems (04)	Tank inspection/ unit accessory (*)
	Equivalent to	SUT00S1507-30			-	~	~	~	-
	2.2kW	SUT03S1507-30			-	~	~	~	~
		SUT00S3007-30			-	~	~	~	-
	Equivalent to	SUT03S3007-30			-	~	~	~	~
	2.8 kW	SUT00S1510-30			-	~	~	~	-
		SUT03S1510-30			-	~	~	~	~
		SUT00S4007-30			-	~	~	~	-
		SUT03S4007-30			-	~	~	~	~
Single	Equivalent to 3.7 kW	SUT00S3010-30	· · · ·	 - -	-	~	~	~	-
pump		SUT03S3010-30			-	~	~	~	~
		SUT00S1516-30			-	~	~	~	-
		SUT03S1516-30			-	~	~	~	~
	Equivalent to 5.0 kW	SUT00S3016-30			-	~	~	~	-
		SUT06S3016-30			-	~	~	~	~
		SUT00S6007-30			-	~	~	~	-
		SUT06S6007-30			~	~	~	~	~
	Equivalent to	SUT00S8007-30			-	-	-	~	-
		SUT10S8007-30			~	-	-	~	~
	Equivalent to	SUT00D4016-30			-	~	~	~	-
	3.7 kW	SUT06D4016-30			~	~	~	~	~
		SUT00D6021-30			-	~	~	~	-
Double	Equivalent to 5.0 kW	SUT06D6021-30			\checkmark	~	~	~	~
pump	5.U KVV	SUT10D6021-30		-	~	~	~	~	~
		SUT00D8021-30			-	-	-	~	-
	Equivalent to 7.0 kW	SUT10D8021-30			\checkmark	-	-	~	~
	1.0 KW	SUT16D8021-30			~	-	-	~	~

* Tank inspections : Water fill test compliant tank (05), water leak test compliant tank (06) Unit accessories : Level switch (07), temperature switch (08), thermometer (09), microseparator (10)

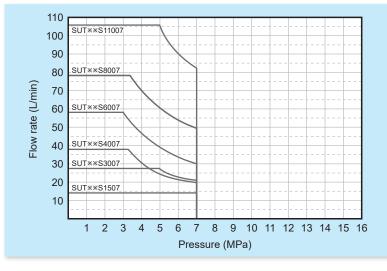
✓ Available – Not available

INVERTER HYDRAULIC UNIT

Pressure – Flow Rate Characteristics (Typical)

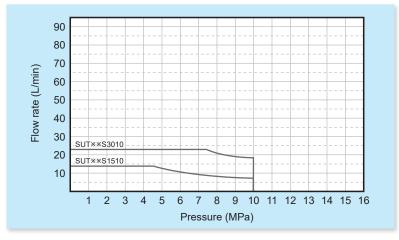
Single pump type

SUT**S1507, SUT**S3007, SUT**S4007, SUT**S6007, SUT**S8007, SUT**S11007



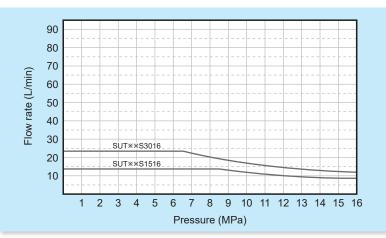
* Operating flow rate at the maximum pressure in continuous operation:					
SUT**S1507:	3 L/min maximum				
SUT**S3007:	5 L/min maximum				
SUT**S4007:	8 L/min maximum				
SUT**S6007:	14 L/min maximum				
SUT**S8007:	19 L/min maximum				
SUT**S11007:	16 L/min maximum				

SUT**S1510, SUT**S3010



* Operating flow rate at the maximum pressure in continuous operation: SUT**S1510: 3 L/min maximum SUT**S3010: 5 L/min maximum

SUT**S3016, SUT**S1516

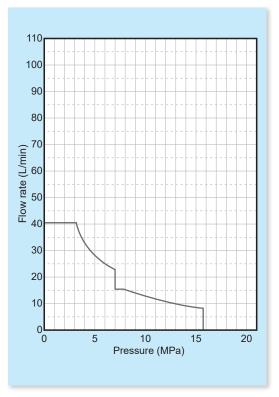


* Operating flow rate at the maximum pressure in continuous operation: SUT**S1516: 5 L/min maximum SUT**S3016: 5 L/min maximum



Double pump type

SUT**D4016

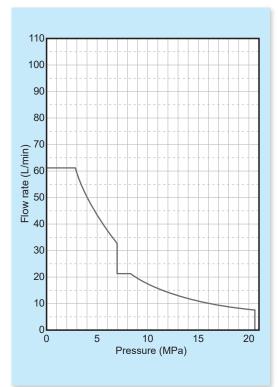


 * Operating flow rate at the maximum pressure in continuous operation: 8 L/min maximum

SUT ** D8021

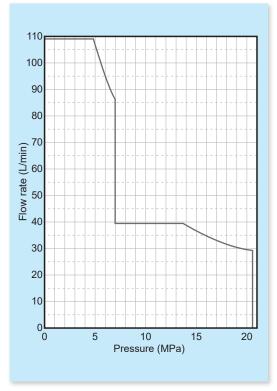
* Operating flow rate at the maximum pressure in continuous operation: 14 L/min maximum

SUT××D6021



* Operating flow rate at the maximum pressure in continuous operation: 6.5 L/min maximum

SUT**D11021



* Operating flow rate at the maximum pressure in continuous operation: 16 L/min maximum

		• •				
	Super Unit [Single pump type]					
Maximum operating pressure 7 MPa Maximum flow rate 15/30 L/min		Pres	sure – Flow rate o	characteristics (I	Representative	
		110				
SUT**S1 SUT**S3			100 90 80	SUT ** \$1007		
			07 00 00 00 10 10	SUT ** \$4007 		
Motor pump type					6 7 8 9 10 11 Pressure (MPa)	12 13 14 15 16
Unit type			* Operat SUT ×	aph shows actual flow rate ting flow rate at the maximu SS1507: 3 L/min maxi S3007: 5 L/min maximum	um pressure in continuous imum	
Specifications			Motor pu	ımp type	Unit	type
Specifications		Model code	Motor pu SUT00S1507-30	Imp type SUT00S3007-30	Unit SUT03S1507-30	type SUT03S3007-30
Specifications		Maximum operating pressure (MPa)			SUT03S1507-30	
Specifications		Maximum operating		SUT00S3007-30	SUT03S1507-30	
Specifications	Pump -	Maximum operating pressure (MPa) Operating pressure adjustment range (MPa) Maximum flow rate		SUT00S3007-30 7.0	SUT03S1507-30	
Specifications	Pump -	Maximum operating pressure (MPa) Operating pressure adjustment range (MPa) Maximum flow rate (theoretical value) (L/min)*1 Operating flow rate	SUT00S1507-30	SUT00S3007-30 7.0 1.5 to	SUT03S1507-30	SUT03S3007-30
Specifications	Pump -	Maximum operating pressure (MPa) Operating pressure adjustment range (MPa) Maximum flow rate (theoretical value) (L/min)*1 Operating flow rate adjustment range (L/min) Motor capacity	SUT00S1507-30 15.2 2.5 to 15.2	SUT00S3007-30 7.0 1.5 tc 28.5 3.5 to 28.5	SUT03S1507-30 0 0 7.0 15.2 2.5 to 15.2	SUT03S3007-30 28.5 3.5 to 28.5
Specifications	Pump -	Maximum operating pressure (MPa) Operating pressure adjustment range (MPa) Maximum flow rate (theoretical value) (L/min) ⁻¹ Operating flow rate adjustment range (L/min) Motor capacity (equivalent kW)	SUT00S1507-30 15.2 2.5 to 15.2 2.2	SUT00S3007-30 7.0 1.5 to 28.5 3.5 to 28.5 2.8	SUT03S1507-30 0 0 7.0 15.2 2.5 to 15.2 2.2	SUT03S3007-30 28.5 3.5 to 28.5 2.8
Specifications	Pump - Motor	Maximum operating pressure (MPa) Operating pressure adjustment range (MPa) Maximum flow rate (theoretical value) (L/min)*1 Operating flow rate adjustment range (L/min) Motor capacity (equivalent kW) Tank capacity (L)	SUT00S1507-30 15.2 2.5 to 15.2 2.2	SUT00S3007-30 7.0 1.5 to 28.5 3.5 to 28.5 2.8 -	SUT03S1507-30 0 0 7.0 15.2 2.5 to 15.2 2.2 3	SUT03S3007-30 28.5 3.5 to 28.5 2.8 0
Specifications	Pump -	Maximum operating pressure (MPa) Operating pressure adjustment range (MPa) Maximum flow rate (theoretical value) (L/min)*1 Operating flow rate adjustment range (L/min) Motor capacity (equivalent kW) Tank capacity (L) oply Motor pump/unit	SUT00S1507-30 15.2 2.5 to 15.2 2.2 3-phase, 200 V	SUT00S3007-30 7.0 1.5 to 28.5 3.5 to 28.5 2.8 - (50 Hz), 200 V (60 Hz), 220 V (SUT03S1507-30 0 0 7.0 15.2 2.5 to 15.2 2.2 3 60 Hz) (Permissible voltage fl	SUT03S3007-30 28.5 3.5 to 28.5 2.8 0 uctuation: ±10%)
Specifications	Pump - Motor Power suj voltage	Maximum operating pressure (MPa) Operating pressure adjustment range (MPa) Maximum flow rate (theoretical value) (L/min)*1 Operating flow rate adjustment range (L/min) Motor capacity (L/min) Tank capacity (L) oply Motor pump/unit AC3 \$ 200 V (50 Hz)	SUT00S1507-30 15.2 2.5 to 15.2 2.2	SUT00S3007-30 7.0 1.5 to 28.5 3.5 to 28.5 2.8 -	SUT03S1507-30 0 0 7.0 15.2 2.5 to 15.2 2.2 3	SUT03S3007-30 28.5 3.5 to 28.5 2.8 0
Specifications	Pump - Motor Power sup voltage	Maximum operating pressure (MPa) Operating pressure adjustment range (MPa) Maximum flow rate (theoretical value) (L/min)*1 Operating flow rate adjustment range (L/min) Motor capacity (equivalent kW) Tank capacity (L) Operating flow rate adjustment range (L/min) Ac3 \$ 200 V (50 Hz)	SUT00S1507-30 15.2 2.5 to 15.2 2.2 3-phase, 200 V (11.5	SUT00S3007-30 7.0 1.5 to 28.5 3.5 to 28.5 2.8 - (50 Hz), 200 V (60 Hz), 220 V (15.4	SUT03S1507-30 0 0 7.0 15.2 2.5 to 15.2 2.2 3 60 Hz) (Permissible voltage fl 11.5	SUT03S3007-30 28.5 3.5 to 28.5 2.8 0 uctuation: ±10%) 15.4
Specifications	Pump - Motor Power sup voltage Rated curr (A)	Maximum operating pressure (MPa) Operating pressure adjustment range (MPa) Maximum flow rate (theoretical value) (L/min) ⁻¹ Operating flow rate adjustment range (L/min) Motor capacity (equivalent kW) Tank capacity (L) oply Motor pump/unit AC3 \$ 200 V (50 Hz) AC3 \$ 200 V (60 Hz)	SUT00S1507-30 15.2 2.5 to 15.2 2.2 3-phase, 200 V 11.5 11.3	SUT00S3007-30 7.0 1.5 tc 28.5 28.5 2.8 2.8 (50 Hz), 200 V (60 Hz), 220 V (0 15.4 15.1 13.8 20	SUT03S1507-30 0 0 7.0 15.2 2.5 to 15.2 2.2 3 60 Hz) (Permissible voltage fl 11.5 11.3 10.6 15	SUT03S3007-30 28.5 3.5 to 28.5 2.8 0 uctuation: ±10%) 15.4 15.1
Specifications	Pump - Motor Power suj voltage Rated curr (A) No-fu:	Maximum operating pressure (MPa) Operating pressure adjustment range (MPa) Maximum flow rate (theoretical value) (L/min)*1 Operating flow rate adjustment range (L/min) Maximum flow rate (cquivalent kW) Tank capacity (L) oply Motor pump/unit AC3 \$ 200 V (50 Hz) AC3 \$ 220 V (60 Hz) AC3 \$ 220 V (60 Hz)	SUT00S1507-30 15.2 2.5 to 15.2 2.2 3-phase, 200 V (11.5 11.3 10.6 15	SUT00S3007-30 7.0 1.5 to 28.5 3.5 to 28.5 2.8 - (50 Hz), 200 V (60 Hz), 220 V (15.4 15.1 13.8 20 5 char	SUT03S1507-30 0 0 7.0 15.2 2.5 to 15.2 2.2 3 60 Hz) (Permissible voltage fl 11.5 11.3 10.6 15 nnels	SUT03S3007-30 28.5 3.5 to 28.5 2.8 0 uctuation: ±10%) 15.4 15.1 13.8 20
Specifications	Pump - Motor Power suj voltage Rated curr (A) No-fu:	Maximum operating pressure (MPa) Operating pressure adjustment range (MPa) Maximum flow rate (theoretical value) (L/min)*1 Operating flow rate adjustment range (L/min) Motor capacity (equivalent kW) Tank capacity (L) Oply AC3 \$ 200 V (50 Hz) AC3 \$ 200 V (60 Hz) AC3 \$ 220 V (60 Hz) Se breaker capacity (A) xternal input signal	SUT00S1507-30 15.2 2.5 to 15.2 2.2 3-phase, 200 V 11.5 11.3 10.6 15 Phot	SUT00S3007-30 7.0 1.5 tc 28.5 28.5 2.8 2.8 (50 Hz), 200 V (60 Hz), 220 V (0 15.4 15.1 13.8 20	SUT03S1507-30 0 0 15.2 2.5 to 15.2 2.2 3 60 Hz) (Permissible voltage fl 11.5 11.3 10.6 15 nnels DC 27 V maximum), 5 mA/chi	SUT03S3007-30 28.5 3.5 to 28.5 2.8 0 uctuation: ±10%) 15.4 15.1 13.8 20 annel
Specifications	Pump - Motor Power sup voltage Rated curr (A) No-fu:	Maximum operating pressure (MPa) Operating pressure adjustment range (MPa) Maximum flow rate (theoretical value) (L/min)*1 Operating flow rate adjustment range (L/min) Motor capacity (equivalent kW) Tank capacity (L) opply Motor pump/unit AC3 \$ 200 V (50 Hz) AC3 \$ 220 V (60 Hz) AC3 \$ 220 V (60 Hz) se breaker capacity (A) xternal input signal I Digital output	SUT00S1507-30 15.2 2.5 to 15.2 2.2 3-phase, 200 V 11.5 11.3 10.6 15 Phot 2 channels, pl	SUT00S3007-30 7.0 1.5 tr 28.5 28.5 2.8 2.8 2.8 - (50 Hz), 200 V (60 Hz), 220 V (0 15.4 15.1 13.8 20 5 char 5 char	SUT03S1507-30 0 0 7.0 15.2 2.5 to 15.2 2.2 3 60 Hz) (Permissible voltage fl 11.5 11.3 10.6 15 nnels DC 27 V maximum), 5 mA/christ tput, DC 24 V, 50 mA maximu	SUT03S3007-30 28.5 3.5 to 28.5 2.8 0 uctuation: ±10%) 15.4 15.1 13.8 20 annel m per channel
Specifications	Pump - Pump - Motor Power sup voltage Rated curr (A) No-fu: Externa	Maximum operating pressure (MPa) Operating pressure (MPa) Maximum flow rate (theoretical value) (L/min)*1 Operating flow rate adjustment range (L/min) Motor capacity (L) Motor capacity (L) AC3 \$ 200 V (50 Hz) AC3 \$ 200 V (60 Hz) AC3 \$ 220 V (60 Hz) AC3 \$ 220 V (60 Hz) Se breaker capacity (A) xternal input signal Digital output	SUT00S1507-30 15.2 2.5 to 15.2 2.2 3-phase, 200 V 11.5 11.3 10.6 15 Phot 2 channels, pi 1 channel (1 corr Genera: • Vis	SUT00S3007-30 7.0 1.5 tc 28.5 28.5 2.8 2.8 2.8 - (50 Hz), 200 V (60 Hz), 220 V (0) 15.4 15.1 13.8 20 5 chai 5 chai 0-coupler insulation, DC 24 V (0)	SUT03S1507-30 D D D D D D 15.2 2.5 to 15.2 2.2 3 60 Hz) (Permissible voltage fl 11.5 11.3 10.6 15 nnels DC 27 V maximum), 5 mA/chrite tput, DC 24 V, 50 mA maximu it (R&O) / Wear-resistant hydrif Viscosity range: 15 to 400 m	SUT03S3007-30 28.5 3.5 to 28.5 2.8 0 uctuation: ±10%) 15.4 15.1 13.8 20 annel m per channel (Resistance load) aulic oil m²/s
Specifications	Pump - Pump - Motor Power sup voltage Rated curr (A) No-fu: Externa	Maximum operating pressure (MPa) Operating pressure adjustment range (MPa) Maximum flow rate (theoretical value) (L/min)*1 Operating flow rate adjustment range (L/min) Maximum flow rate (L/min)*1 Operating flow rate adjustment range (L/min) Motor capacity (equivalent kW) Tank capacity (L) Opely Motor pump/unit AC3 \$ 200 V (50 Hz) AC3 \$ 220 V (60 Hz) AC3 \$ 220 V (60 Hz) Seb breaker capacity (A) xternal input signal Digital output Contact output	SUT00S1507-30 15.2 2.5 to 15.2 2.2 3-phase, 200 V 1 11.5 11.3 10.6 15 Phot 2 channels, pl 1 channel (1 corr Gener: • Vis • Contam	SUT00S3007-30 7.0 1.5 to 28.5 3.5 to 28.5 2.8 2.8 (50 Hz), 200 V (60 Hz), 220 V (15.4 15.1 13.8 20 5 char o-coupler insulation, DC 24 V (noto coupler insulation, FET ou mon contact), dry contact, Con al petroleum-based hydraulic oi cosolty grade: IS0 VG32 to 68 •	SUT03S1507-30 0 0 0 15.2 2.5 to 15.2 2.2 3 60 Hz) (Permissible voltage fl 11.5 11.3 10.6 15 nnels DC 27 V maximum), 5 mA/chait tput, DC 24 V, 50 mA maximu tatc capacity: DC 30 V, 0.5 A il (R&O) / Wear-resistant hydr. Viscosity range: 15 to 400 m polumetric water content: 0.1%	SUT03S3007-30 28.5 3.5 to 28.5 2.8 0 uctuation: ±10%) 15.4 15.1 13.8 20 annel m per channel (Resistance load) aulic oil m²/s maximum
Specifications	Pump - Pump - Motor Power sup voltage Rated curr (A) No-fu: Externa	Maximum operating pressure (MPa) Operating pressure (MPa) Maximum flow rate (theoretical value) (L/min)*1 Operating flow rate adjustment range (L/min) Operating flow rate adjustment range (L/min) Motor capacity (L) Operating flow rate adjustment range (L/min) AC3 \$ 200 V (50 Hz) AC3 \$ 200 V (60 Hz) AC3 \$ 220 V (60 Hz) Se breaker capacity (A) xternal input signal Innal Digital output Contact output Usable oil *2 Tank oil temperature Operating ambient temperature	SUT00S1507-30 15.2 2.5 to 15.2 2.2 3-phase, 200 V 1 11.5 11.3 10.6 15 Phot 2 channels, pl 1 channel (1 corr Generr • Vis • Contam	SUT00S3007-30 7.1 1.5 to 28.5 3.5 to 28.5 2.8 2.8 - (50 Hz), 200 V (60 Hz), 220 V (15.4 15.1 13.8 20 5 char o-coupler insulation, DC 24 V (hoto coupler insulation, FET ou imon contact), dry contact, Con al petroleum-based hydraulic oi iccosity grade: ISO VG32 to 68 • 60°C (Recommended operatir 0 to 4	SUT03S1507-30 0 0 15.2 2.5 to 15.2 2.2 3 60 Hz) (Permissible voltage fl 11.5 11.3 10.6 15 DC 27 V maximum), 5 mA/chr. tput, DC 24 V, 50 mA maximu ttact capacity: DC 30 V, 0.5 A il (R&O) / Wear-resistant hydrr. Viscosity range: 15 to 400 m plumetric water content: 0.1% ng temperature range: 15 to 510°C	SUT03S3007-30 28.5 3.5 to 28.5 2.8 0 uctuation: ±10%) 15.4 15.1 13.8 20 annel m per channel (Resistance load) aulic oil m²/s maximum
Specifications	Pump - Motor Power su voltage Rated curr (A) No-fu: E Externa output sig	Maximum operating pressure (MPa) Operating pressure (MPa) Maximum flow rate (theoretical value) (L/min)*1 Operating flow rate adjustment range (L/min) Operating flow rate adjustment range (L/min) Motor capacity (L) opply AC3 \$ 200 V (50 Hz) AC3 \$ 220 V (60 Hz) Contact output Usable oil *2 Tank oil temperature Operating ambient temperature	SUT00S1507-30 15.2 2.5 to 15.2 2.2 3-phase, 200 V 1 11.5 11.3 10.6 15 Phot 2 channels, pl 1 channel (1 corr Generr • Vis • Contam	SUT00S3007-30 7.1 1.5 to 28.5 3.5 to 28.5 2.8 - (50 Hz), 200 V (60 Hz), 220 V (0 15.4 15.1 13.8 20 5 char o-coupler insulation, DC 24 V (0 not coupler insulation, FET ou imon contact), dry contact, Con al petroleum-based hydraulic oi iccosity grade: ISO VG32 to 68 • 0 60°C (Recommended operatir 0 to 4 -20 to	SUT03S1507-30 0 15.2 2.5 to 15.2 2.2 3 60 Hz) (Permissible voltage fl 11.5 11.3 10.6 15 nnels DC 27 V maximum), 5 mA/christ tput, DC 24 V, 50 mA maximu ttat capacity: DC 30 V, 0.5 A il (R&O) / Wear-resistant hydrix Viscosity range: 15 to 400 m plumetric water content: 0.1% ng temperature range: 15 to 50 60°C	SUT03S3007-30 28.5 3.5 to 28.5 2.8 0 uctuation: ±10%) 15.4 15.1 13.8 20 annel m per channel (Resistance load) aulic oil m²/s maximum
Specifications	Pump - Pump - Motor Power sup voltage Rated curr (A) No-fu: Externa	Maximum operating pressure (MPa) Operating pressure (MPa) Maximum flow rate (theoretical value) (L/min)*1 Operating flow rate adjustment range (L/min) Operating flow rate adjustment range (L/min) Motor capacity (L) opply Motor pump/unit AC3 \$ 200 V (50 Hz) AC3 \$ 220 V (60 Hz) AC3 \$ 220 V (60 Hz) AC3 \$ 220 V (60 Hz) Se breaker capacity (A) xternal input signal Inal Digital output Contact output Usable oil *2 Tank oil temperature Operating ambient temperature Operating ambient temperature	SUT00S1507-30 15.2 2.5 to 15.2 2.2 3-phase, 200 V 1 11.5 11.3 10.6 15 Phot 2 channels, pl 1 channel (1 corr Generr • Vis • Contam	SUT00S3007-30 7.1 1.5 to 28.5 3.5 to 28.5 2.8 2.8 - (50 Hz), 200 V (60 Hz), 220 V (15.4 15.1 13.8 20 5 char o-coupler insulation, DC 24 V (hoto coupler insulation, FET ou imon contact), dry contact, Con al petroleum-based hydraulic oi iccosity grade: ISO VG32 to 68 • 60°C (Recommended operatir 0 to 4	SUT03S1507-30 0 15.2 2.5 to 15.2 2.2 3 60 Hz) (Permissible voltage fl 11.5 11.3 10.6 15 nnels DC 27 V maximum), 5 mA/christ tput, DC 24 V, 50 mA maximu ttat capacity: DC 30 V, 0.5 A il (R&O) / Wear-resistant hydr: Viscosity range: 15 to 400 m ng temperature range: 15 to 50 f0°C 60°C (No condensation)	SUT03S3007-30 28.5 3.5 to 28.5 2.8 0 uctuation: ±10%) 15.4 15.1 13.8 20 annel m per channel (Resistance load) aulic oil m²/s maximum
Specifications	Pump - Pump - Motor Power sup voltage Rated cum (A) No-fu: E Externa output sig	Maximum operating pressure (MPa) Operating pressure (MPa) Maximum flow rate (theoretical value) (L/min)*1 Operating flow rate adjustment range (L/min) Operating flow rate adjustment range (L/min) Motor capacity (L) opply Motor pump/unit AC3 \$ 200 V (50 Hz) AC3 \$ 220 V (60 Hz) AC3 \$ 220 V (60 Hz) AC3 \$ 220 V (60 Hz) Se breaker capacity (A) xternal input signal Inal Digital output Contact output Usable oil *2 Tank oil temperature Operating ambient temperature Operating ambient temperature	SUT00S1507-30 15.2 2.5 to 15.2 2.2 3-phase, 200 V 11.5 11.3 10.6 15 2 channels, pl 1 channel (1 corr Gener: • Vis • Contam 0 to • Be sure to connect a • Make sure that the el • Frequent turning this	SUT00S3007-30 7.1 1.5 to 28.5 3.5 to 28.5 2.8 - (50 Hz), 200 V (60 Hz), 220 V (10 15.4 15.1 13.8 20 5 char o-coupler insulation, DC 24 V (10 not coupler insulation, DC 24 V (10 not coupler insulation, FET ou imon contact), dry contact, Com al petroleum-based hydraulic oi ccosity grade: ISO VG32 to 68 · V6 60°C (Recommended operatir 0 to 4 -20 to 85% RH maximum (Controlli Indoors (Be sure to sec circuit breaker for all (three) po ectrical wiring meets the requir unit's power supply ON/OFF w	SUT03S1507-30 D D D D D D D D D D D D D D D D D D D	SUT03S3007-30 28.5 3.5 to 28.5 2.8 0 uctuation: ±10%) 15.4 15.1 13.8 20 annel m per channel (Resistance load) aulic oil m²/s maximum 0°C) aker. L EN60204-1. ntroller's service life.
Specifications	Pump - Motor Power sup voltage Rated curr (A) No-fue Externa output sig	Maximum operating pressure (MPa) Operating pressure (MPa) Maximum flow rate (theoretical value) (L/min)*1 Operating flow rate adjustment range (L/min) Motor capacity (equivalent kW) Tank capacity (L) operating flow rate adjustment range (L/min)*1 AC3 \$ 200 V (50 Hz) AC3 \$ 200 V (50 Hz) AC3 \$ 200 V (60 Hz) AC3 \$ 220 V (70 Prest) Usable \$ 01 *2<	SUT00S1507-30 15.2 2.5 to 15.2 2.2 3-phase, 200 V 11.5 11.3 10.6 15 2 channels, pl 1 channel (1 corr Generation - Vis • Contam 0 to • Be sure to connect a • Make sure that the el • Frequent turning this To start or stop the unity	SUT00S3007-30 7.1 1.5 to 28.5 3.5 to 28.5 2.8 - (50 Hz), 200 V (60 Hz), 220 V (10 15.4 15.1 13.8 20 5 char o-coupler insulation, DC 24 V (10 not coupler insulation, DC 24 V (10 not coupler insulation, FET ou imon contact), dry contact, Com al petroleum-based hydraulic oi ccosity grade: ISO VG32 to 68 · V6 60°C (Recommended operatir 0 to 4 -20 to 85% RH maximum (Controlli Indoors (Be sure to sec circuit breaker for all (three) po ectrical wiring meets the requir unit's power supply ON/OFF w	SUT03S1507-30 D D D D D D D D D D D D D	SUT03S3007-30 28.5 3.5 to 28.5 2.8 0 uctuation: ±10%) 15.4 15.1 13.8 20 annel m per channel (Resistance load) aulic oil m²/s maximum 0°C) aker. L EN60204-1. ntroller's service life.

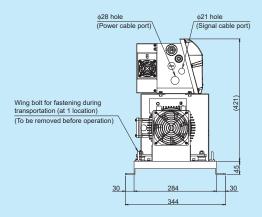
*1: The pump flow rate has been factory-set to the maximum flow rate. The maximum flow rate given in the table above is a theoretical value, not a guaranteed value.
*2: Consult DAIKIN about the use of hydraulic oils other than petroleum-based oil (e.g. hydrous/synthetic) such as water-glycol hydraulic oil.
*3: The unit incorporates a safety value.
*4: When selecting a SUPER UNIT, refer to "Pressure-Flow rate characteristics" and the description of how to select a unit in the separate catalog for SUPER UNITs. For the purpose of making improvements, the specifications given in catalogs are subject to change without prior notice. Be sure to refer to the latest outside drawing.

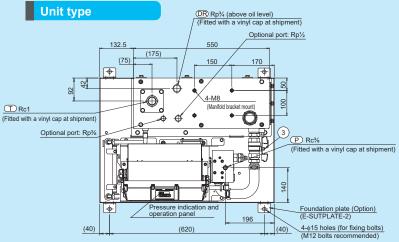


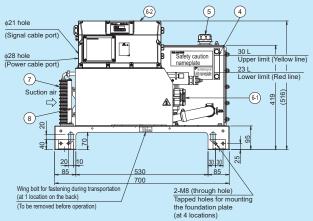
Motor pump type

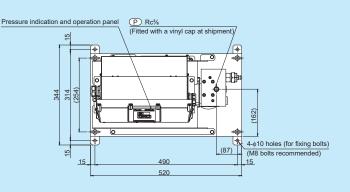
SUT00S1507-30 SUT00S3007-30

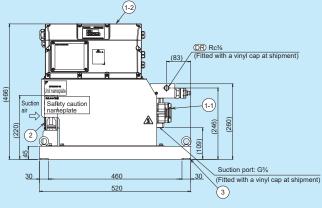
Part No.	Name	Quantity
1-1	Motor pump incorporating an IPM motor	1
1-2	Controller	1
2	AC fan	1
3	Base	1





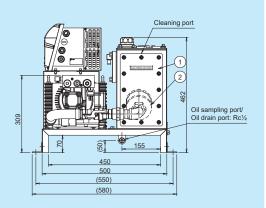






SUT03S1507-30 SUT03S3007-30

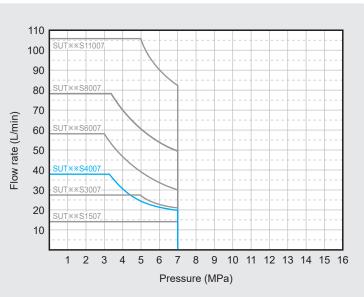
Part No.	Name	Quantity
1	Oil tank	1
2	Suction strainer	1
3	Stop valve	1
4	Oil level gauge	1
5	Oil filter port-cum-air bleeder	1
6-1	Motor pump incorporating an IPM motor	1
6-2	Controller	1
7	Oil cooler	1
8	AC fan	1





Motor pump type Unit type

Pressure – Flow rate characteristics (Representative)



* The graph shows actual flow rates (representative values).

* Operating flow rate at the maximum pressure in continuous operation: 8 L/min maximum

Specifications

		Motor pump type	Unit type			
Ν	Nodel code	SUT00S4007-30	SUT03S4007-30			
	Maximum flow rate (theoretical value; L/min) *1	39.7				
Pump unit	Maximum operating pressure (MPa)	7.0				
r unp unit	Operating flow rate adjustment range (L/min)	5.3 to 39.7				
	Operating pressure adjustment range (MPa)	1.5 te	o 7.0			
Motor capacity	Motor capacity (equivalent kW)	Equivalent	to 3.7 kW			
Power supply	Motor pump/unit	3-phase, 200 V (50 Hz), 200 V (60 Hz), 220 V ((60 Hz) (Permissible voltage fluctuation: ±10%)			
	AC3	16	5.1			
Rated current (A)	AC3	15	i.8			
(-)	AC3	14	.8			
Power sour	ce breaker setting (A)	20				
Ester	a al lines de al anna l	5 channels				
Exter	nal input signal	Photo-coupler insulation, DC 24 V (DC 27 V maximum), 5 mA/channel				
External	Digital output	2 channels, photo coupler insulation, FET output, DC 24 V, 50 mA maximum per channel				
output signal	Contact output	1 channel (1 common contact), dry contact Contact capacity: DC 30 V, 0.5 A (resistance load)				
	Mass (kg)	46	64			
	Usable oil *2	Special mineral-oil base hydraulic oil/wear-resistant hydraulic oil • Viscosity grade: ISO VG32 to 68 • Viscosity range: 15 to 400 mm²/s • Contamination: Within NAS class 10 • Volumetric water content: 0.1% maximum				
	Operating hydraulic oil temperature (in tank)	0 to 60°C (Recommended operating temperature range: 15 to 50°C)				
	Operating ambient temperature	0 to 40°C				
Outersting	Storage ambient temperature	−20 to 60°C				
Operating conditions	Operating ambient humidity	85% RH max. (no condensation)				
	Installation site	Indoors (Be sure to secure the unit with bolts.)				
	Others	 Be sure to connect a circuit breaker for all (three) poles and the earth leakage breaker. Make sure that the electrical wiring meets the requirements of European Standard EN60204-1. Frequent turning this unit's power supply ON/OFF will considerably shorten the control unit's service life To start or stop the unit at 8-minute or shorter intervals, use the unit's control stop function. Be sure to connect the ground terminal. 				
Tan	k capacity (L)	-	30			
Standa	ard coating color	Ivory white (Muns	sell code 5Y7.5/1)			
Note) *1. The pur	nn flow rate has been factory-	set to the maximum discharge rate. The maximum discharge rate given i	in the table above is a theoretical value, not a guaranteed value			

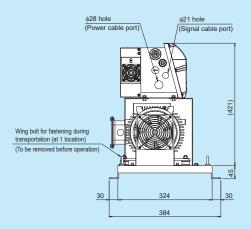
Note) *1: The pump flow rate has been factory-set to the maximum discharge rate. The maximum discharge rate given in the table above is a theoretical value, not a guaranteed value.
 *2: Consult Daikin about the use of hydraulic oils other than mineral-oil base type (e.g. hydrous/synthetic) such as water-glycol hydraulic oil.
 *3: The unit incorporates a safety valve.
 *4: When selecting a Super Unit, refer to "Pressure-Flow rate characteristics and how to select a unit" on Page 49.
 For the purpose of making improvements, the specifications given in catalogs are subject to change without prior notice. Be sure to refer to the latest outside drawing.



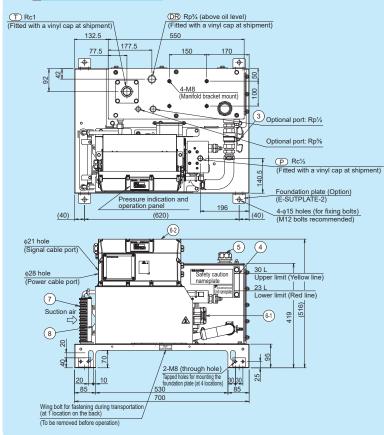
Motor pump type

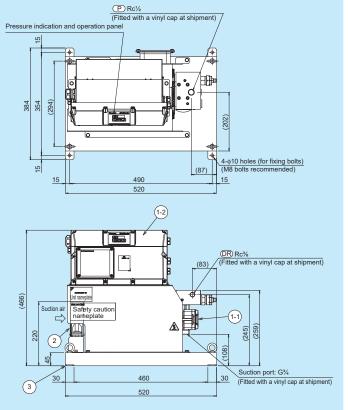
SUT00S4007-30

Part No.	Name	Quantity
1-1	Motor pump incorporating an IPM motor	1
1-2	Controller	1
2	AC fan	1
3	Base	1



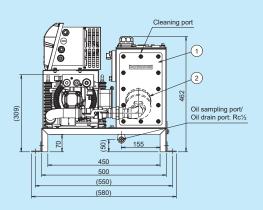
Unit type

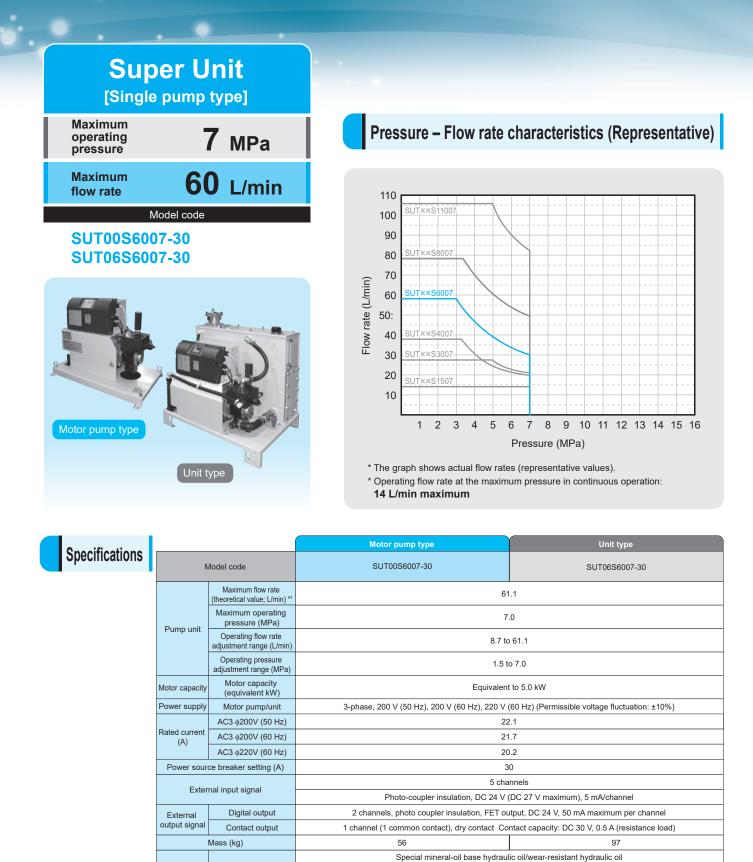




SUT03S4007-30

Part No.	Name	Quantity
1	Oil tank	1
2	Suction strainer	1
3	Stop valve	1
4	Oil level gauge	1
5	Oil filler port-cum-air breather	1
6-1	Motor pump incorporating an IPM motor	1
6-2	Controller	1
7	Oil cooler	1
8	AC fan	1





Tank capacity (L) 60 Standard coating color Ivory white (Munsell code 5Y7.5/1) The pump flow rate has been factory-set to the maximum discharge rate. The maximum discharge rate given in the table above is a theoretical value, not a guaranteed value Consult Daikin about the use of hydraulic oils other than mineral-oil base type (e.g. hydrous/synthetic) such as water-glycol hydraulic oil. Note) *1:

The unit incorporates a safety valve. When selecting a Super Unit, refer to "Pressure-Flow rate characteristics and how to select a unit" on Page 49. *3: *4:

Usable oil *2

Operating hydraulic oil

temperature (in tank) Operating ambient temperature

Storage ambient temperature

Operating ambient humidity

Installation site

Others

Operating

conditions

For the purpose of making improvements, the specifications given in catalogs are subject to change without prior notice. Be sure to refer to the latest outside drawing.

Viscosity grade: ISO VG32 to 68 • Viscosity range: 15 to 400 mm²/s
 Contamination: Within NAS class 10 • Volumetric water content: 0.1% maximum

0 to 60°C (Recommended operating temperature range: 15 to 50°C)

0 to 40°C –20 to 60°C

85% RH max. (no condensation)

Indoors (Be sure to secure the unit with bolts.)

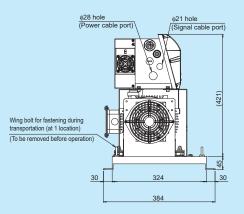
Be sure to connect a circuit breaker for all (three) poles and the earth leakage breaker.
Make sure that the electrical wiring meets the requirements of European Standard EN60204-1.
Frequent turning this unit's power supply ON/OFF will considerably shorten the control unit's service life. To start or stop the unit at 8-minute or shorter intervals, use the unit's control stop function.
Be sure to connect the ground terminal.

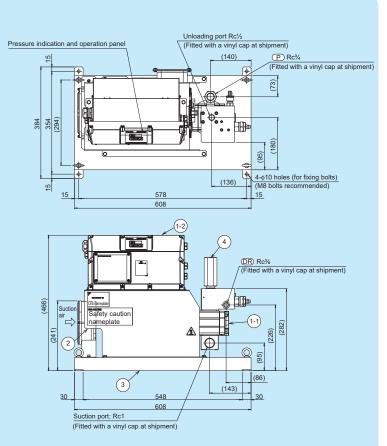


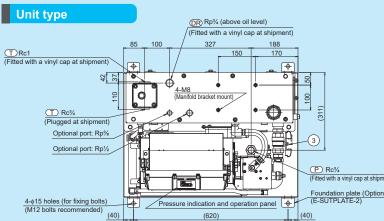
Motor pump type

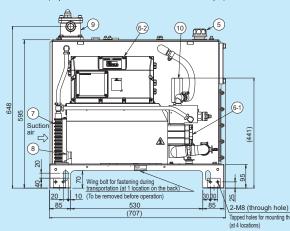
SUT00S6007-30

Part No.	Name	Quantity
1-1	Motor pump incorporating an IPM motor	1
1-2	Controller	1
2	AC fan	1
3	Base	1
4	Check valve	1



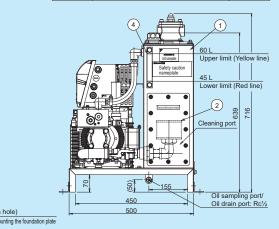




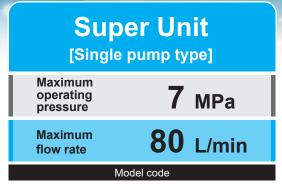


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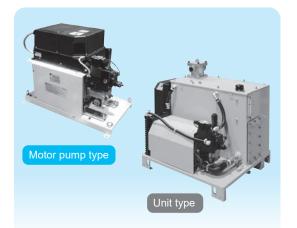
	Part No.	Name	Quantity
	1	Oil tank	1
	2	Suction strainer	1
	3	Stop valve	1
	4	Oil level gauge	1
	5	Oil filler port-cum-air breather	1
	6-1	Motor pump incorporating an IPM motor	1
	6-2	Controller	1
nent)	7	Oil cooler	1
<u>1)</u>	8	AC fan	1
.7	9	Return filter	1
	10	Check valve	1



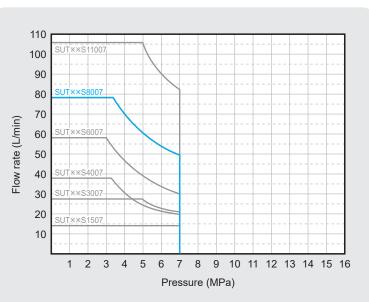
60 L/min







Pressure – Flow rate characteristics (Representative)



* The graph shows actual flow rates (representative values).

* Operating flow rate at the maximum pressure in continuous operation: 19 L/min maximum

Unit type

Specifications

			onii type		
N	Nodel code	SUT00S8007-30	SUT10S8007-30		
	Maximum flow rate (theoretical value; L/min) *1	83.0			
Pump unit	Maximum operating pressure (MPa)	7.0			
	Operating flow rate adjustment range (L/min)	11.6 to 83.0			
	Operating pressure adjustment range (MPa)	1.5 t	o 7.0		
Motor capacity	Motor capacity (equivalent kW)	Equivalent	t to 7.0 kW		
Power supply	Motor pump/unit	3-phase, 200 V (50 Hz), 200 V (60 Hz), 220 V ((60 Hz) (Permissible voltage fluctuation: ±10%)		
	AC3	25	5.5		
Rated current (A)	AC3	24	l.8		
(**)	AC3	22	2.7		
Power sour	ce breaker setting (A)	50			
Ester	a al increde since al	5 channels			
Exter	nal input signal	Photo-coupler insulation, DC 24 V (DC 27 V maximum), 5 mA/channel			
External	Digital output	2 channels, photo coupler insulation, FET output, DC 24 V, 50 mA maximum per channel			
output signal	Contact output	1 channel (1 common contact), dry contact Contact capacity: DC 30 V, 0.5 A (resistance			
	Mass (kg)	72	131		
	Usable oil *2	Viscosity grade: ISO VG32 to 68	ic oil/wear-resistant hydraulic oil • Viscosity range: 15 to 400 mm²/s /olumetric water content: 0.1% maximum		
	Operating hydraulic oil temperature (in tank)	0 to 60°C (Recommended operating temperature range: 15 to 50°C)			
	Operating ambient temperature	0 to 4	0 to 40°C		
Oneseting	Storage ambient temperature	-20 tc	9 60°C		
Operating conditions	Operating ambient humidity	85% RH max. (no condensation)			
	Installation site	Indoors (Be sure to see	cure the unit with bolts.)		
	Others	 Be sure to connect a circuit breaker for all (three) poles and the earth leakage breaker. Make sure that the electrical wiring meets the requirements of European Standard EN60204-1. Frequent turning this unit's power supply ON/OFF will considerably shorten the control unit's servi To start or stop the unit at 8-minute or shorter intervals, use the unit's control stop function. Be sure to connect the ground terminal. 			
Tan	k capacity (L)	_	100		
Standa	ard coating color	Ivory white (Munsell code 5Y7.5/1)			
Tan	k capacity (L)	• Be sure to connect the ground terminal. –	100		
Standard coating color		Ivory white (Munsell code 5Y7.5/1)			

Motor pump typ

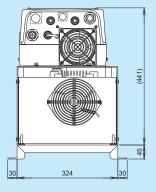
Note) *1: The pump flow rate has been factory-set to the maximum discharge rate. The maximum discharge rate given in the table above is a theoretical value, not a guaranteed value.
 *2: Consult Daikin about the use of hydraulic oils other than mineral-oil base type (e.g. hydrous/synthetic) such as water-glycol hydraulic oil.
 *3: The unit incorporates a safety valve.
 *4: When selecting a Super Unit, refer to "Pressure-Flow rate characteristics and how to select a unit" on Page 49. For the purpose of making improvements, the specifications given in catalogs are subject to change without prior notice. Be sure to refer to the latest outside drawing.

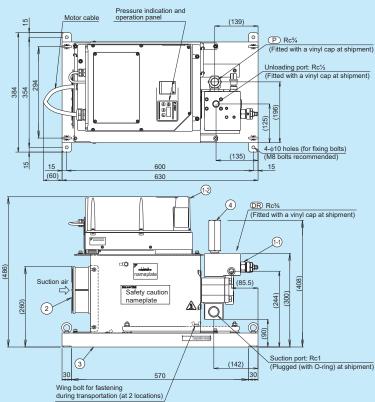


Motor pump type

SUT00S8007-30

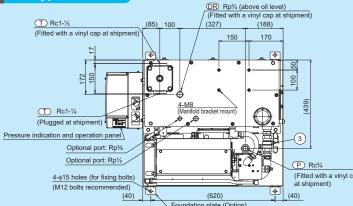
Part No.	Name	Quantity
1-1	Motor pump incorporating an IPM motor	1
1-2	Controller	1
2	AC fan	1
3	Base	1
4	Check valve	1

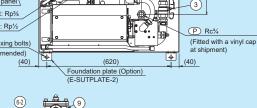


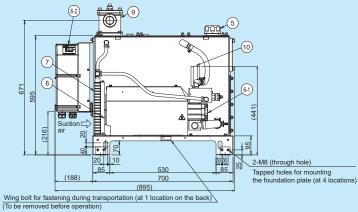


(To be removed before operation)

Unit type







SUT10S8007-30

Part No.	Name	Quantity
1	Oil tank	1
2	Suction strainer	1
3	Stop valve	1
4	Oil level gauge	1
5	Oil filler port-cum-air breather	1
6-1	Motor pump incorporating an IPM motor	1
6-2	Controller	1
7	Oil cooler	1
8	AC fan	1
9	Return filter	1
10	Check valve	1

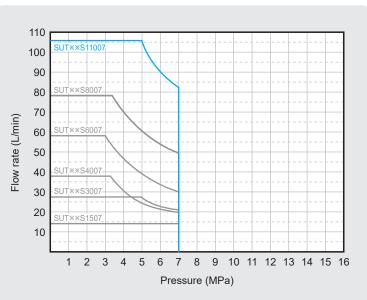
Cleaning port <u>100 L</u> Upper limit (Yellow line) 76 L Lower limit (Red line) 754 (647) 1 2 A 155 2 8 50 80 45 580 630 Oil sampling port/ Oil drain port: Rc1/2

80 L/min



Motor pump type

Pressure – Flow rate characteristics (Representative)



* The graph shows actual flow rates (representative values).

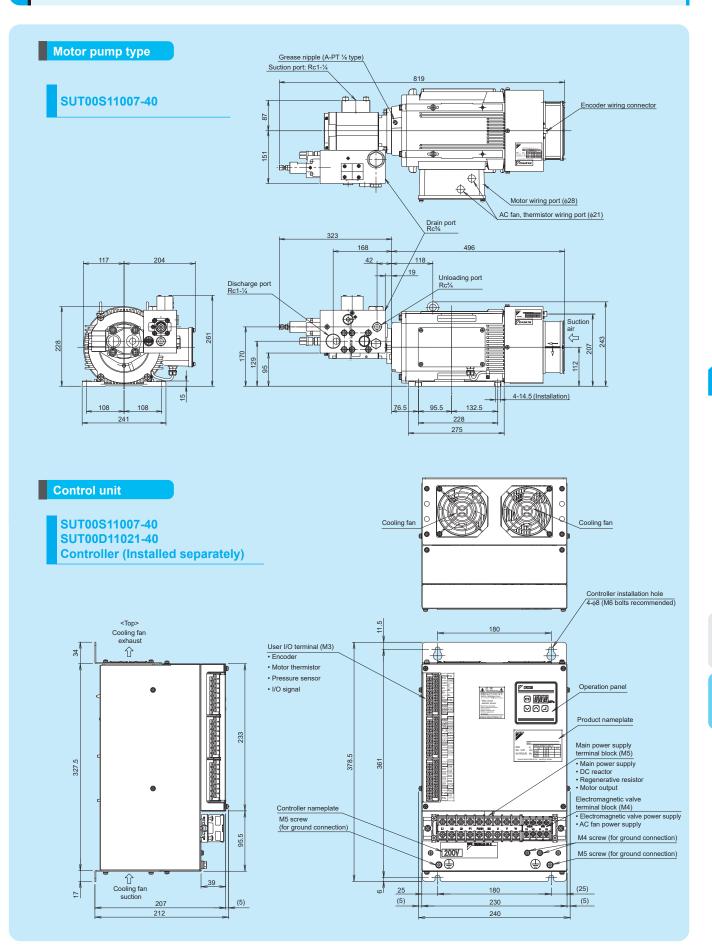
* Operating flow rate at the maximum pressure in continuous operation:

16 L/min maximum

Onesting	Model code		Motor pump type
Specifications			SUT00S11007-40
		Maximum flow rate (theoretical value; L/min) *1	110
	Pump unit	Maximum operating pressure (MPa)	7.0
		Operating flow rate adjustment range (L/min)	13.3 to 110
		Operating pressure adjustment range (MPa)	1.5 to 7.0
	Motor capacity	Motor capacity (equivalent kW)	Equivalent to 11.0 kW
	Power supply	Motor pump	3-phase, 200 V (50 Hz), 200 V (60 Hz), 220 V (60 Hz) (Permissible voltage fluctuation: ±10%)
	_	AC3	38.3
	Rated current (A)	AC3	37.8
		AC3	34.9
	Power source	ce breaker setting (A)	75
	External input signal		5 channels
			Photo-coupler insulation, DC 24 V (DC 27 V maximum), 5 mA/channel
	External	Digital output	2 channels, photo coupler insulation, FET output, DC 24 V, 50 mA maximum per channel
	output signal	Contact output	1 channel (1 common contact), dry contact Contact capacity: DC 30 V, 0.5 A (resistance load)
		Mass (kg)	112
		Usable oil *2	Special mineral-oil base hydraulic oil/wear-resistant hydraulic oil • Viscosity grade: ISO VG32 to 68 • Viscosity range: 15 to 400 mm²/s • Contamination: Within NAS class 10 • Volumetric water content: 0.1% maximum
		Operating hydraulic oil temperature (in tank)	0 to 60°C (Recommended operating temperature range: 15 to 50°C)
		Operating ambient temperature	0 to 40°C
	Operating	Storage ambient temperature	–20 to 60°C
	conditions	Operating ambient humidity	85% RH max. (no condensation)
		Installation site	Indoors (Be sure to secure the unit with bolts.)
		Others	 Be sure to connect a circuit breaker for all (three) poles and the earth leakage breaker. Make sure that the electrical wiring meets the requirements of European Standard EN60204-1. Frequent turning this unit's power supply ON/OFF will considerably shorten the control unit's service life. To start or stop the unit at 8-minute or shorter intervals, use the unit's control stop function. Be sure to connect the ground terminal.
	Tan	k capacity (L)	
	Standard coating color		Ivory white (Munsell code 5Y7.5/1)

Note) *1: The pump flow rate has been factory-set to the maximum discharge rate. The maximum discharge rate given in the table above is a theoretical value, not a guaranteed value.
 *2: Consult Daikin about the use of hydraulic oils other than mineral-oil base type (e.g. hydrous/synthetic) such as water-glycol hydraulic oil.
 *3: The unit incorporates a safety valve.
 *4: When selecting a Super Unit, refer to *Pressure-Flow rate characteristics and how to select a unit* on Page 49.
 For the purpose of making improvements, the specifications given in catalogs are subject to change without prior notice. Be sure to refer to the latest outside drawing.





7

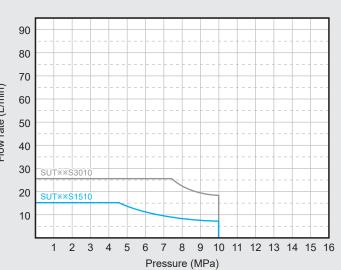
MPa

110 L/min

Super Unit [Single pump type] Maximum **10** MPa operating pressure Maximum

Pressure – Flow rate characteristics (Representative)





* The graph shows actual flow rates (representative values).

* Operating flow rate at the maximum pressure in continuous operation:

Unit type

3 L/min maximum

Motor pump typ

Specifications

Maximum flow rate (theoretical value; L/min)** SUT00S1510-30 SUT03S1510-30 Pump unit Maximum flow rate (theoretical value; L/min)** 1.5.2 Maximum operating pressure (MPa) 0.0 0.0 Operating flow rate adjustment range (L/min) 2.5 to 15.2 Operating pressure adjustment range (MPa) 1.5 to 10.0 Motor capacity (equivalent kW) Motor capacity (equivalent kW) Power supply Motor pump/unit 3-phase, 200 V (50 Hz), 200 V (60 Hz), 220 V (60 Hz) (Permissible voltage fluctuation: ±10%) Rated current (A) AC3 \$200V (50 Hz) Intervention 5.0			
Motor capacity (A) Motor capacity (equivalent kW) Motor capacity (equivalent kW) Motor capacity (equivalent kW) Power supply Motor pump/unit 3-phase, 200 V (50 Hz), 200 V (60 Hz), 220 V (60 Hz) (Permissible voltage fluctuation: ±10%) Rated current (A) AC3 \$200V (60 Hz) 7.8			
Pump unit Adjustment range (I/min) pressure (MPa) 10.0 Operating flow rate adjustment range (I/min) 0.5 to 15.2 Operating pressure adjustment range (MPa) 1.5 to 10.0 Motor capacity (equivalent kW) Equivalent to 2.8 kW Power supply Motor pump/unit 3-phase, 200 V (50 Hz), 200 V (60 Hz), 220 V (60 Hz) (Permissible voltage fluctuation: ±10%) Rated current (A) AC3 \$200V (60 Hz)			
Operating flow rate adjustment range (L/min) 2.5 to 15.2 Operating pressure adjustment range (MPa) 1.5 to 10.0 Motor capacity (equivalent kW) Motor capacity (equivalent kW) Power supply Motor pump/unit 3-phase, 200 V (50 Hz), 200 V (60 Hz), 220 V (60 Hz) (Permissible voltage fluctuation: ±10%) Rated current (A) AC3 \$200V (60 Hz)			
adjustment range (MPa) 1.5 to 10.0 Motor capacity (equivalent kW) Equivalent to 2.8 kW Power supply Motor pump/unit 3-phase, 200 V (50 Hz), 200 V (60 Hz), 220 V (60 Hz) (Permissible voltage fluctuation: ±10%) Rated current (A) AC3 \$200V (50 Hz) 8.0			
Motor capacity (equivalent kŴ) Equivalent to 2.8 kW Power supply Motor pump/unit 3-phase, 200 V (50 Hz), 200 V (60 Hz), 220 V (60 Hz) (Permissible voltage fluctuation: ±10%) Rated current (A) AC3 \$\phi200V (50 Hz) 8.0			
AC3 \$\phi200V (50 Hz) 8.0 Ac3 \$\phi200V (60 Hz) 7.8			
Rated current (A) AC3 \u03c6200V (60 Hz) 7.8			
(A) AC3 0200V (60 Hz) 7.8			
AC3 ¢220V (60 Hz) 7.5			
Power source breaker setting (A) 15	15		
5 channels	5 channels		
External input signal Photo-coupler insulation, DC 24 V (DC 27 V maximum), 5 mA/channel	Photo-coupler insulation, DC 24 V (DC 27 V maximum), 5 mA/channel		
External Digital output 2 channels, photo coupler insulation, FET output, DC 24 V, 50 mA maximum per channel	2 channels, photo coupler insulation, FET output, DC 24 V, 50 mA maximum per channel		
output signal Contact output 1 channel (1 common contact), dry contact Contact capacity: DC 30 V, 0.5 A (resistance load)	1 channel (1 common contact), dry contact Contact capacity: DC 30 V, 0.5 A (resistance load)		
Mass (kg) 39 59			
Usable oil *2 Usable oil *2 Special mineral-oil base hydraulic oil/wear-resistant hydraulic oil Viscosity grade: ISO VG32 to 68 • Viscosity range: 15 to 400 mm²/s • Contamination: Within NAS class 9 • Volumetric water content: 0.1% maximum			
Operating hydraulic oil temperature 0 to 60°C (Recommended operating temperature range: 15 to 50°C)			
Operating ambient temperature 0 to 40°C			
Operating Storage ambient temperature -20 to 60°C			
conditions Operating ambient humidity 85% RH max. (no condensation)			
Installation site Indoors (Be sure to secure the unit with bolts.)			
Others • Be sure to connect a circuit breaker for all (three) poles and the earth leakage breaker. • Make sure that the electrical wiring meets the requirements of European Standard EN60204-1. • Frequent turning this unit's power supply ON/OFF will considerably shorten the control unit's set To start or stop the unit at 8-minute or shorter intervals, use the unit's control stop function. • Be sure to connect the ground terminal.	vice life.		
Tank capacity (L) - 30			
Standard coating color Ivory white (Munsell code 5Y7.5/1)	Ivory white (Munsell code 5Y7.5/1)		

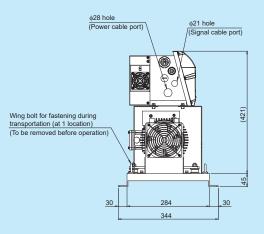
*1: The pump flow rate has been factory-set to the maximum discharge rate. The maximum discharge rate given in the table above is a theoretical value, not a guaranteed value.
*2: Consult Daikin about the use of hydraulic oils other than mineral-oil base type (e.g. hydrous/synthetic) such as water-glycol hydraulic oil. Keep the contamination level of the hydraulic fluid within NAS contamination class 10 for operating pressures of 7 MPa or lower.
*3: The unit incorporates a safety valve.
*4: When selecting a Super Unit, refer to "Pressure-Flow rate characteristics and how to select a unit" on Page 49. For the purpose of making improvements, the specifications given in catalogs are subject to change without prior notice. Be sure to refer to the latest outside drawing. Note) *1: *2:

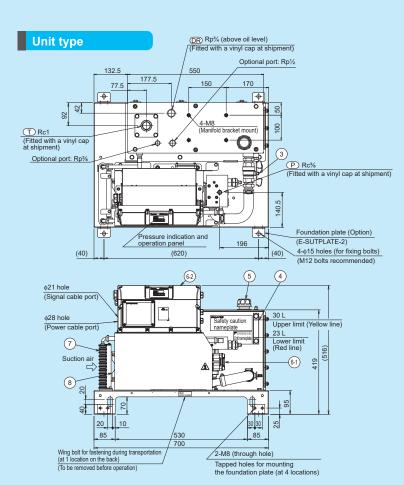


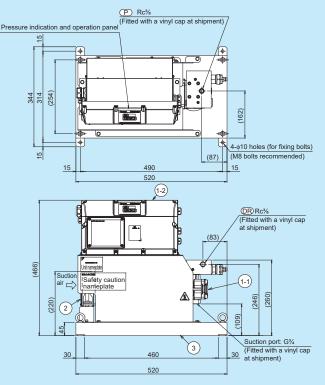
Motor pump type

SUT00S1510-30

Part No.	Name	Quantity
1-1	Motor pump incorporating an IPM motor	1
1-2	Controller	1
2	AC fan	1
3	Base	1

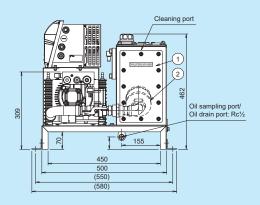






SUT03S1510-30

Part No.	Name	Quantity
1	Oil tank	1
2	Suction strainer	1
3	Stop valve	1
4	Oil level gauge	1
5	Oil filter port-cum-air bleeder	1
6-1	Motor pump incorporating an IPM motor	1
6-2	Controller	1
7	Oil cooler	1
8	AC fan	1



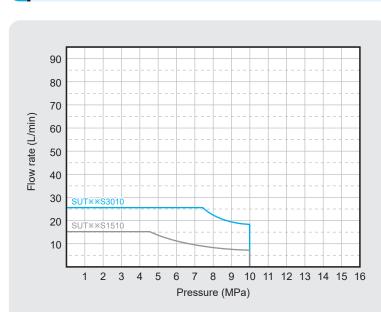
Super Unit [Single pump type] Maximum **10** MPa operating pressure 30 L/min Maximum flow rate

Model code

Unit type

SUT ** S3010-30

Pressure – Flow rate characteristics (Representative)



* The graph shows actual flow rates (representative values).

* Operating flow rate at the maximum pressure in continuous operation:

Init typ

5 L/min maximum

Specifications

Motor pump type

		Motor pump type Unit type			
Model code		SUT00S3010-30	SUT03S3010-30		
	Maximum flow rate (theoretical value; L/min) *1	25.6			
Pump unit	Maximum operating pressure (MPa)	10.0			
Fumpuliit	Operating flow rate adjustment range (L/min)	3.4 to 25.6			
	Operating pressure adjustment range (MPa)	1.5 to 10.0			
Motor capacity	Motor capacity (equivalent kW)	Equivalent	t to 3.7 kW		
Power supply	Motor pump/unit	3-phase, 200 V (50 Hz), 200 V (60 Hz), 220 V ((60 Hz) (Permissible voltage fluctuation: ±10%)		
	AC3	18	3.4		
Rated current (A)	AC3	18	3.4		
(,,)	AC3	16.9			
Power source breaker setting (A)		20			
External input signal		5 channels			
		Photo-coupler insulation, DC 24 V (DC 27 V maximum), 5 mA/channel			
External Digital output output signal Contact output		2 channels, photo coupler insulation, FET output, DC 24 V, 50 mA maximum per channel			
		1 channel (1 common contact), dry contact Contact capacity: DC 30 V, 0.5 A (resistance load)			
	Mass (kg)	46	64		
	Usable oil *2	Special mineral-oil base hydraulic oil/wear-resistant hydraulic oil • Viscosity grade: ISO VG32 to 68 • Viscosity range: 15 to 400 mm²/s • Contamination: Within NAS class 9 • Volumetric water content: 0.1% maximum			
	Operating hydraulic oil temperature (in tank)	0 to 60°C (Recommended operating temperature range: 15 to 50°C)			
	Operating ambient temperature	0 to 4	40°C		
Oneseting	Storage ambient temperature	−20 to 60°C			
Operating conditions	Operating ambient humidity	85% RH max. (no condensation)			
	Installation site	Indoors (Be sure to secure the unit with bolts.)			
	Others	 Be sure to connect a circuit breaker for all (three) poles and the earth leakage breaker. Make sure that the electrical wiring meets the requirements of European Standard EN60204-1. Frequent turning this unit's power supply ON/OFF will considerably shorten the control unit's service lif To start or stop the unit at 8-minute or shorter intervals, use the unit's control stop function. Be sure to connect the ground terminal. 			
Tan	k capacity (L)	_	30		
Standa	ard coating color	Ivory white (Munsell code 5Y7.5/1)			

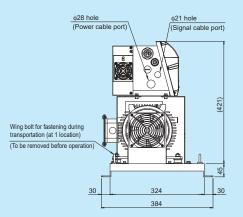
*1: The pump flow rate has been factory-set to the maximum discharge rate. The maximum discharge rate given in the table above is a theoretical value, not a guaranteed value.
*2: Consult Daikin about the use of hydraulic oils other than mineral-oil base type (e.g. hydrous/synthetic) such as water-glycol hydraulic oil. Keep the contamination level of the hydraulic fluid within NAS contamination class 10 for operating pressures of 7 MPa or lower.
*3: The unit incorporates a safety valve.
*4: When selecting a Super Unit, refer to "Pressure-Flow rate characteristics and how to select a unit" on Page 49. For the purpose of making improvements, the specifications given in catalogs are subject to change without prior notice. Be sure to refer to the latest outside drawing. Note) *1: *2:

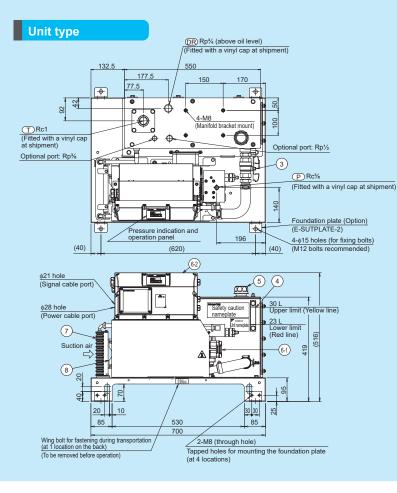


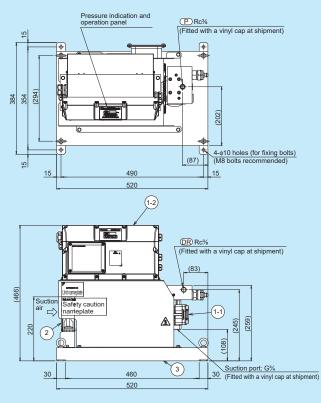
Motor pump type

SUT00S3010-30

Part No.	Name	Quantity
		Quantity
1-1	Motor pump incorporating an IPM motor	1
1-2	Controller	1
2	AC fan	1
3	Base	1

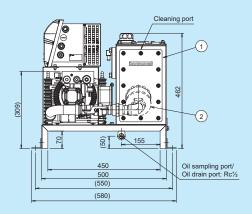






SUT03S3010-30

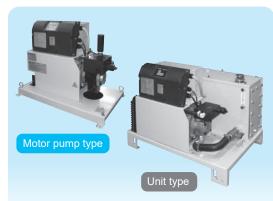
Part No.	Name	Quantity
1	Oil tank	1
2	Suction strainer	1
3	Stop valve	1
4	Oil level gauge	1
5	Oil filler port-cum-air breather	1
6-1	Motor pump incorporating an IPM motor	1
6-2	Controller	1
7	Oil cooler	1
8	AC fan	1



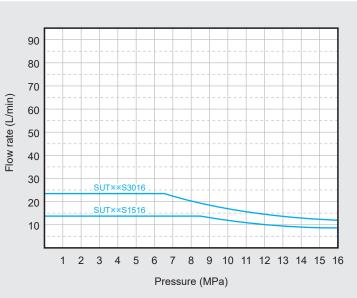
Super Unit [Single pump type]

Maximum operating pressure	16 мРа
Maximum flow rate	15/30 L/min
	Model code

SUT ** S1516-30 SUT ** S3016-30



Pressure – Flow rate characteristics (Representative)



* The graph shows actual flow rates (representative values).

* Operating flow rate at the maximum pressure in continuous operation: 5 L/min maximum

Unit type

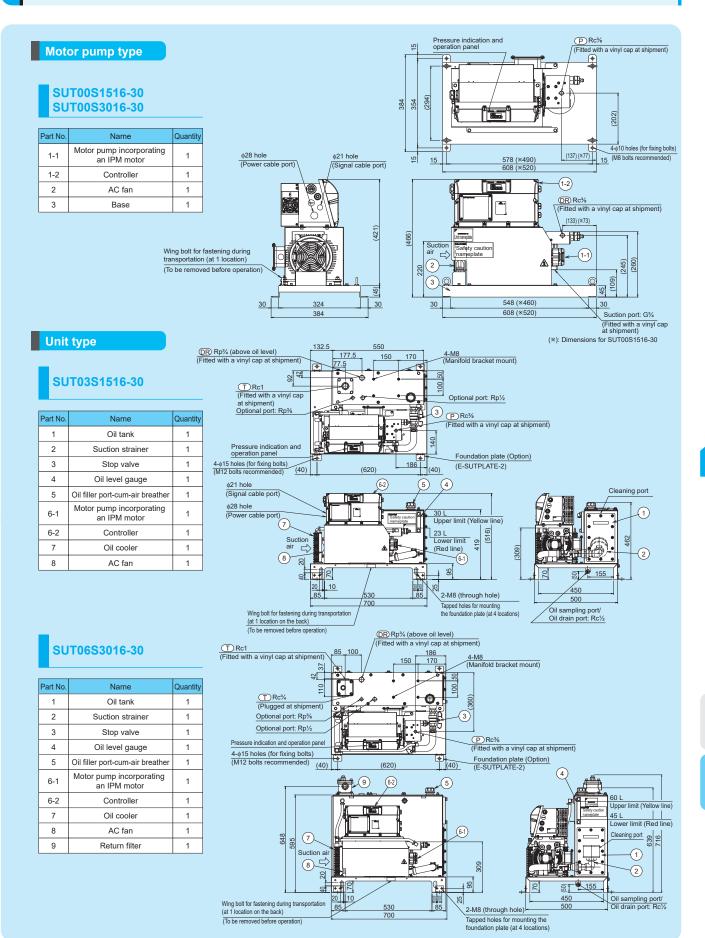
Specifications

		Motor pl	inp type	Uhit	гуре	
Model code		SUT00S1516-30	SUT00S3016-30	SUT03S1516-30	SUT06S3016-30	
	Maximum flow rate (theoretical value; L/min) *1	15.2	25.6	15.2	25.6	
Dummunit	Maximum operating pressure (MPa)	16.0				
Pump unit	Operating flow rate adjustment range (L/min)	2.4 to 15.2	3.4 to 25.6	2.4 to 15.2	3.4 to 25.6	
	Operating pressure adjustment range (MPa)	1.5 to 16.0				
Motor capacity	Motor capacity (equivalent kW)	Equivalent to 3.7 kW	Equivalent to 5.0 kW	Equivalent to 3.7 kW	Equivalent to 5.0 kW	
Power supply	Motor pump/unit	3-phase, 200 V ((50 Hz), 200 V (60 Hz), 220 V (60 Hz) (Permissible voltage flu	uctuation: ±10%)	
	AC3	15.2	21.4	15.2	21.4	
Rated current (A)	AC3	15.2	21.4	15.2	21.4	
()	AC3	14.6	20.2	14.6	20.2	
Power source breaker setting (A)		20	30	20	30	
External input signal		5 channels				
		Photo-coupler insulation, DC 24 V (DC 27 V maximum), 5 mA/channel				
External Digital output		2 channels, photo coupler insulation, FET output, DC 24 V, 50 mA maximum per channel				
output signal	Contact output	1 channel (1 common contact), dry contact Contact capacity: DC 30 V, 0.5 A (resistance load)				
N	/ass (kg)	46	52	64	83	
Usable oil *2		Special mineral-oil base hydraulic oil/wear-resistant hydraulic oil • Viscosity grade: ISO VG32 to 68 • Viscosity range: 15 to 400 mm²/s • Contamination: Within NAS class 9 • Volumetric water content: 0.1% maximum				
	Operating hydraulic oil temperature (in tank)	0 to 60°C (Recommended operating temperature range: 15 to 50°C)				
	Operating ambient temperature	0 to 40°C				
	Storage ambient temperature	−20 to 60°C				
Operating conditions	Operating ambient humidity	85% RH max. (no condensation)				
	Installation site	Indoors (Be sure to secure the unit with bolts.)				
	Others	 Be sure to connect a circuit breaker for all (three) poles and the earth leakage breaker. Make sure that the electrical wiring meets the requirements of European Standard EN60204-1. Frequent turning this unit's power supply ON/OFF will considerably shorten the control unit's service life. To start or stop the unit at 8-minute or shorter intervals, use the unit's control stop function. Be sure to connect the ground terminal. 				
Tank	capacity (L)	- 30 60			60	
Standa	rd coating color	Ivory white (Munsell code 5Y7.5/1)				
	- Anno 1997	tet to the maximum discharge rate. The maximum discharge rate given in the table above is a theoretical value not a guaranteed value				

Motor pump typ

Note) *1: The pump flow rate has been factory-set to the maximum discharge rate. The maximum discharge rate given in the table above is a theoretical value, not a guaranteed value.
 *2: Consult Daikin about the use of hydraulic oils other than mineral-oil base type (e.g. hydrous/synthetic) such as water-glycol hydraulic oil. Keep the contamination level of the hydraulic fluid within NAS contamination class 10 for operating pressures of 7 MPa or lower.
 *3: The unit incorporates a safety valve.
 *4: When selecting a Super Unit, refer to "Pressure-Flow rate characteristics and how to select a unit" on Page 49.
 For the purpose of making improvements, the specifications given in catalogs are subject to change without prior notice. Be sure to refer to the latest outside drawing.





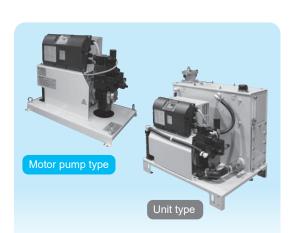
15/

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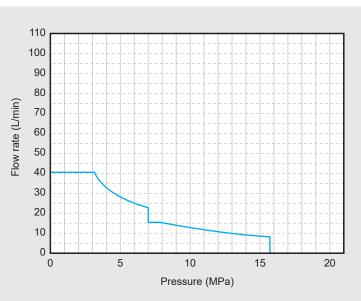
Super Unit [Double pump type]

Maximum 16 мРа operating pressure 40 L/min Maximum flow rate Model code

SUT ** D4016-30



Pressure – Flow rate characteristics (Representative)



* The graph shows actual flow rates (representative values).

* Operating flow rate at the maximum pressure in continuous operation:

8 L/min maximum

Specifications

		Motor pump type	Unit type		
Model code		SUT00D4016-30	SUT06D4016-30		
Maximum flow rate (theoretical value; L/min) *1		41.0 (41.0 for combination flow, 16.0 for independent flow)			
Pump unit	Maximum operating pressure (MPa)	15.7			
Fumpunit	Operating flow rate adjustment range (L/min)	5.4 to 41.0			
	Operating pressure adjustment range (MPa)	1.5 to 15.7			
Motor capacity	Motor capacity (equivalent kW)	Equivalent	to 3.7 kW		
Power supply	Motor pump/unit	3-phase, 200 V (50 Hz), 200 V (60 Hz), 220 V (60 Hz) (Permissible voltage fluctuation: ±10%)		
	AC3	17	.9		
Rated current (A)	AC3	17	.7		
(**)	AC3	16	.5		
Power source breaker setting (A)		20			
External input signal		5 channels			
		Photo-coupler insulation, DC 24 V (DC 27 V maximum), 5 mA/channel			
External Digital output		2 channels, photo coupler insulation, FET output, DC 24 V, 50 mA maximum per channel			
output signal	Contact output	1 channel (1 common contact), dry contact Contact capacity: DC 30 V, 0.5 A (resistance load)			
Mass (kg)		53	94		
Usable oil *2		Special mineral-oil base hydraulic oil/wear-resistant hydraulic oil • Viscosity grade: ISO VG32 to 68 • Viscosity range: 15 to 400 mm²/s • Contamination: Within NAS class 9 • Volumetric water content: 0.1% maximum			
	Operating hydraulic oil temperature (in tank)	0 to 60°C (Recommended operating temperature range: 15 to 50°C)			
	Operating ambient temperature	0 to 40°C			
On another	Storage ambient temperature	-20 to	60°C		
Operating conditions	Operating ambient humidity	85% RH max. (n	o condensation)		
	Installation site	Indoors (Be sure to see	ure the unit with bolts.)		
	Others	 Be sure to connect a circuit breaker for all (three) poles and the earth leakage breaker. Make sure that the electrical wiring meets the requirements of European Standard EN60204-1. Frequent turning this unit's power supply ON/OFF will considerably shorten the control unit's service life. To start or stop the unit at 8-minute or shorter intervals, use the unit's control stop function. Be sure to connect the ground terminal. 			
Tank	capacity (L)	-	60		
Standa	rd coating color	Ivory white (Munsell code 5Y7.5/1)			
Note) *1: The pum	flow rate bas been factory s	set to the maximum discharge rate. The maximum discharge rate given in the table above is a theoretical value, not a guaranteed value.			

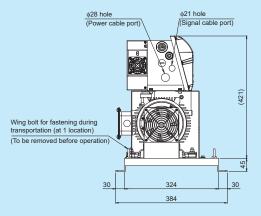
Note) *1: The pump flow rate has been factory-set to the maximum discharge rate. The maximum discharge rate given in the table above is a theoretical value, not a guaranteed value.
 *2: Consult Daikin about the use of hydraulic oils other than mineral-oil base type (e.g. hydrous/synthetic) such as water-glycol hydraulic oil. Keep the contamination level of the hydraulic fluid within NAS contamination class 10 for operating pressures of 7 MPa or lower.
 *3: The unit incorporates a safety valve.
 *4: When selecting a Super Unit, refer to "Pressure-Flow rate characteristics and how to select a unit" on Page 49.
 For the purpose of making improvements, the specifications given in catalogs are subject to change without prior notice. Be sure to refer to the latest outside drawing.

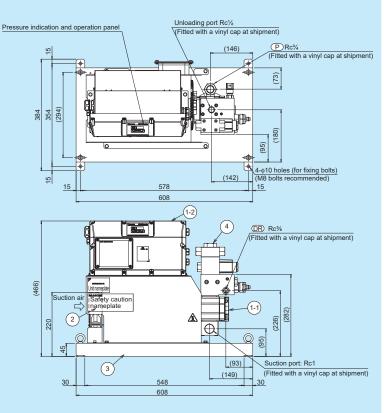


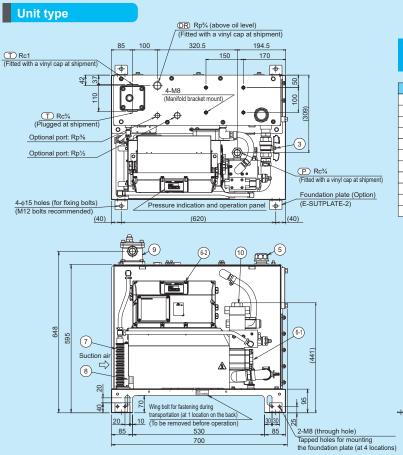
Motor pump type

SUT00D4016-30

Part No.	Name	Quantity
1-1	Motor pump incorporating an IPM motor	1
1-2	Controller	1
2	AC fan	1
3	Base	1
4	Check valve	1

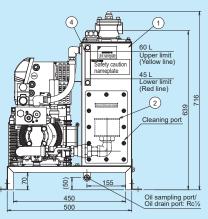






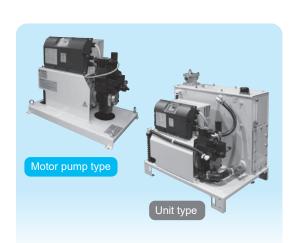
SUT06D4016-30

Part No.	Name	Quantity
1	Oil tank	1
2	Suction strainer	1
3	Stop valve	1
4	Oil level gauge	1
5	Oil filler port-cum-air breather	1
6-1	Motor pump incorporating an IPM motor	1
6-2	Controller	1
7	Oil cooler	1
8	AC fan	1
9	Return filter	1
10	Check valve	1

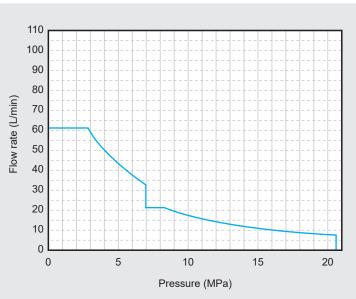




SUT ** D6021-30



Pressure – Flow rate characteristics (Representative)



* The graph shows actual flow rates (representative values).

* Operating flow rate at the maximum pressure in continuous operation:

Unit type

6.5 L/min maximum

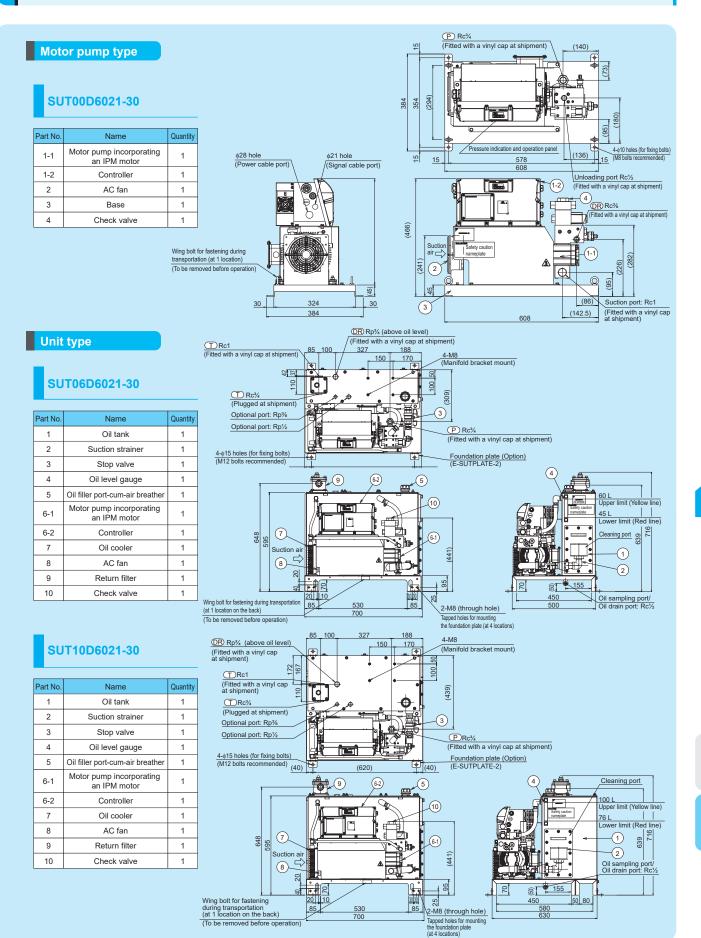
Motor pump typ

Specifications

		motor pump type	Unit type			
Model code		SUT00D6021-30	SUT06D6021-30	SUT10D6021-30		
Pump unit	Maximum flow rate (theoretical value; L/min) *1	61.1 (61.1 for combination flow, 21.2 for independent flow)				
	Maximum operating pressure (MPa)	20.6				
	Operating flow rate adjustment range (L/min)	8.7 to 61.1				
	Operating pressure adjustment range (MPa)	1.5 to 20.6				
Motor capacity	Motor capacity (equivalent kW)	Equivalent to 5.0 kW				
Power supply	Motor pump/unit	3-phase, 200 V (50 Hz), 200 V (60 Hz), 220 V (60 Hz) (Permissible voltage fluctuation: ±10%)				
	AC3	22.1				
Rated current (A)	AC3	21.7				
()	AC3	20.2				
Power sourc	e breaker setting (A)		30			
Estern	- Linnest - innest	5 channels				
External input signal		Photo-coupler insulation, DC 24 V (DC 27 V maximum), 5 mA/channel				
External	Digital output	2 channels, photo coupler insulation, FET output, DC 24 V, 50 mA maximum per channel				
output signal	Contact output	1 channel (1 common contact), dry contact Contact capacity: DC 30 V, 0.5 A (resistance load)				
Mass (kg)		58	99	112		
	Usable oil *2	Special mineral-oil base hydraulic oil/wear-resistant hydraulic oil • Viscosity grade: ISO VG32 to 68 • Viscosity range: 15 to 400 mm²/s • Contamination: Within NAS class 9 • Volumetric water content: 0.1% maximum				
	Operating hydraulic oil temperature (in tank)	0 to 60°C (Recommended operating temperature range: 15 to 50°C)				
	Operating ambient temperature	0 to 40°C				
On creating	Storage ambient temperature	–20 to 60°C				
Operating conditions	Operating ambient humidity	85% RH max. (no condensation)				
	Installation site	Indoors (Be sure to secure the unit with bolts.)				
	Others	 Be sure to connect a circuit breaker for all (three) poles and the earth leakage breaker. Make sure that the electrical wiring meets the requirements of European Standard EN60204-1. Frequent turning this unit's power supply ON/OFF will considerably shorten the control unit's service life. To start or stop the unit at 8-minute or shorter intervals, use the unit's control stop function. Be sure to connect the ground terminal. 				
Tank capacity (L)		-	60	100		
Standard coating color		Ivory white (Munsell code 5Y7.5/1)				
Note) *1: The pump flow rate has been factory-set to the maximum discharge rate. The maximum discharge rate given in the table				poretical value, not a guaranteed value		

Note) *1: The pump flow rate has been factory-set to the maximum discharge rate. The maximum discharge rate given in the table above is a theoretical value, not a guaranteed value.
 *2: Consult Daikin about the use of hydraulic oils other than mineral-oil base type (e.g. hydrous/synthetic) such as water-glycol hydraulic oil. Keep the contamination level of the hydraulic fluid within NAS contamination class 10 for operating pressures of 7 MPa or lower.
 *3: The unit incorporates a safety valve.
 *4: When selecting a Super Unit, refer to "Pressure-Flow rate characteristics and how to select a unit" on Page 49.
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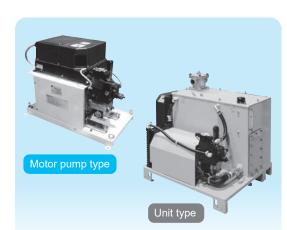
L/min

21

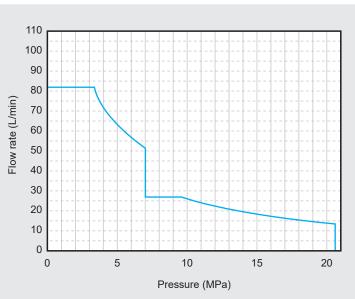
MPa



SUT ** D8021-30



Pressure – Flow rate characteristics (Representative)



* The graph shows actual flow rates (representative values).

* Operating flow rate at the maximum pressure in continuous operation: 14 L/min maximum

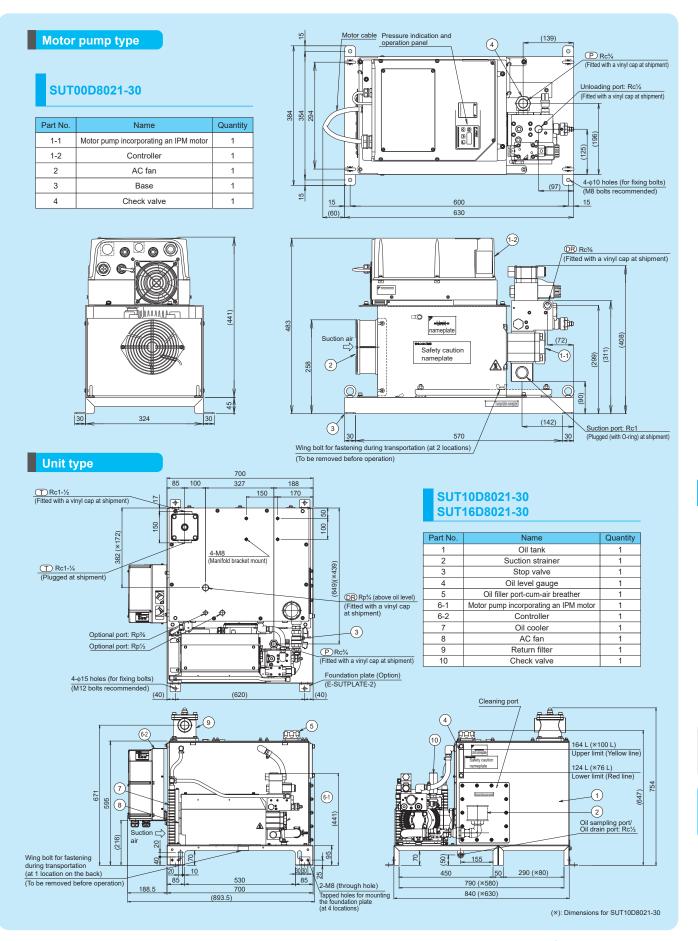
Specifications

		Motor pump type	Unit type		
Model code		SUT00D8021-30	SUT10D8021-30	SUT16D8021-30	
	Maximum flow rate (theoretical value; L/min) *1	83.0 (83.0 for combination flow, 28.7 for independent flow)			
Pump unit	Maximum operating pressure (MPa)	20.6			
	Operating flow rate adjustment range (L/min)	11.6 to 83.0			
	Operating pressure adjustment range (MPa)	1.5 to 20.6			
Motor capacity	Motor capacity (equivalent kW)	Equivalent to 7.0 kW			
Power supply	Motor pump/unit	3-phase, 200 V (50 Hz), 200 V (60 Hz), 220 V (60 Hz) (Permissible voltage fluctuation: ±10%)			
	AC3	25.5			
Rated current (A)	AC3	24.8			
()	AC3	22.7			
Power sourc	e breaker setting (A)	50			
External input signal		5 channels			
Extern	iai input signai	Photo-coupler insulation, DC 24 V (DC 27 V maximum), 5 mA/channel			
External	Digital output	2 channels, photo coupler insulation, FET output, DC 24 V, 50 mA maximum per channel			
output signal	Contact output	1 channel (1 common contact), dry contact Contact capacity: DC 30 V, 0.5 A (resistance load)		0 V, 0.5 A (resistance load)	
Mass (kg)		72	133	145	
	Usable oil *2	Special mineral-oil base hydraulic oil/wear-resistant hydraulic oil • Viscosity grade: ISO VG32 to 68 • Viscosity range: 15 to 400 mm²/s • Contamination: Within NAS class 9 • Volumetric water content: 0.1% maximum			
	Operating hydraulic oil temperature (in tank)	0 to 60°C (Recommended operating temperature range: 15 to 50°C)			
	Operating ambient temperature	0 to 40°C			
Operating	Storage ambient temperature		–20 to 60°C		
conditions	Operating ambient humidity	85% RH max. (no condensation)			
	Installation site	Indoors (Be sure to secure the unit with bolts.)			
	Others	 Be sure to connect a circuit breaker for all (three) poles and the earth leakage breaker. Make sure that the electrical wiring meets the requirements of European Standard EN60204-1. Frequent turning this unit's power supply ON/OFF will considerably shorten the control unit's service life. To start or stop the unit at 8-minute or shorter intervals, use the unit's control stop function. Be sure to connect the ground terminal. 			
Tank capacity (L)		-	100	160	
Standard coating color		Ivory white (Munsell code 5Y7.5/1)			
Note) *1: The pump flow rate has been factory-set to the maximum discharge rate. The maximum discharge rate given in the table above is a theoretical value, not a				eoretical value, not a guaranteed value.	

Note) *1: The pump flow rate has been factory-set to the maximum discharge rate. The maximum discharge rate given in the table above is a theoretical value, not a guaranteed value.
 *2: Consult Daikin about the use of hydraulic oils other than mineral-oil base type (e.g. hydrous/synthetic) such as water-glycol hydraulic oil. Keep the contamination level of the hydraulic fluid within NAS contamination class 10 for operating pressures of 7 MPa or lower.
 *3: The unit incorporates a safety valve.
 *4: When selecting a Super Unit, refer to "Pressure-Flow rate characteristics and how to select a unit" on Page 49.
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External Dimension Diagram



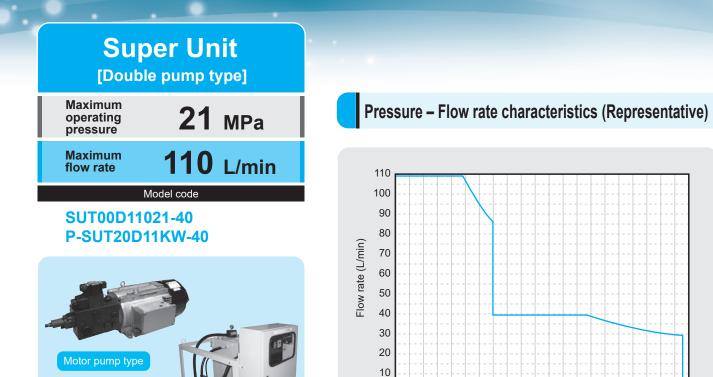
Specifications/External Dimension Diagram

21

MPa

80

L/min



Pressure (MPa)

10

15

Unit type

20

5

* The graph shows actual flow rates (representative values). * Operating flow rate at the maximum pressure in continuous operation:

16 L/min maximum

0 0

Motor pump type

Specifications

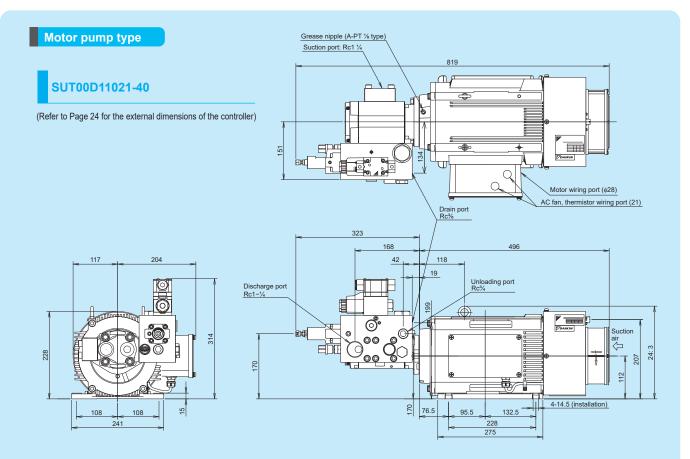
Unit type

		motor pump type	Onictype				
M	odel code	SUT00D11021-40	P-SUT20D11KW-40				
	Maximum flow rate (theoretical value; L/min) *1	110 (110 for combination flow, 40.5 for independent flow)					
	Maximum operating pressure (MPa)	20.6					
	Operating flow rate adjustment range (L/min)	13.3 to 110					
	Operating pressure adjustment range (MPa)	1.5 to	20.6				
Motor capacity	Motor capacity (equivalent kW)	Equivalen	t to 11 kW				
Power supply	Motor pump/unit	3-phase, 200 V (50 Hz), 200 V (60 Hz), 220 V ((60 Hz) (Permissible voltage fluctuation: ±10%)				
	AC3	38	3.3				
Rated current (A)	AC3	37.8					
(**)	AC3	34.9					
Power source	e breaker setting (A)	75					
External input signal		5 channels					
		Photo-coupler insulation, DC 24 V ((DC 27 V maximum), 5 mA/channel				
External	Digital output	2 channels, photo coupler insulation, FET output, DC 24 V, 50 mA maximum per channel					
output signal	Contact output	1 channel (1 common contact), dry contact Contact capacity: DC 30 V, 0.5 A (resistance load)					
N	/lass (kg)	112	360				
	Usable oil *2	Special mineral-oil base hydraul • Viscosity grade: ISO VG32 to 68 • Contamination: Within NAS class 9 • V	Viscosity range: 15 to 400 mm ² /s				
	Operating hydraulic oil temperature (in tank)	0 to 60°C (Recommended operation	ng temperature range: 15 to 50°C)				
	Operating ambient temperature	0 to 40°C					
Operating	Storage ambient temperature	-20 to	0 60°C				
conditions	Operating ambient humidity	85% RH max. (n	o condensation)				
	Installation site	Indoors (Be sure to see	cure the unit with bolts.)				
	Others	 Be sure to connect a circuit breaker for all (three) poles and the earth leakage breaker. Make sure that the electrical wiring meets the requirements of European Standard EN60204-1. Frequent turning this unit's power supply ON/OFF will considerably shorten the control unit's service life. To start or stop the unit at 8-minute or shorter intervals, use the unit's control stop function. Be sure to connect the ground terminal. 					
Tank	capacity (L)	-	200				
Standar	rd coating color	Ivory white (Munsell code 5Y7.5/1)					
ote) *1: The num	a) *1: The pump flow rate has been factory-set to the maximum discharge rate. The maximum discharge rate given in the table above is a theoretical value. not a guaranteed value.						

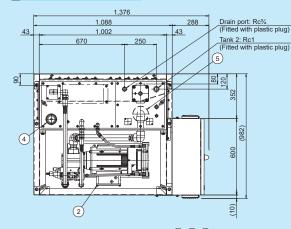
Note) *1: The pump flow rate has been factory-set to the maximum discharge rate. The maximum discharge rate given in the table above is a theoretical value, not a guaranteed value.
 *2: Consult Daikin about the use of hydraulic oils other than mineral-oil base type (e.g. hydrous/synthetic) such as water-glycol hydraulic oil. Keep the contamination level of the hydraulic fluid within NAS contamination class 10 for operating pressures of 7 MPa or lower.
 *3: The unit incorporates a safety valve.
 *4: When selecting a Super Unit, refer to "Pressure-Flow rate characteristics and how to select a unit" on Page 49.
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External Dimension Diagram

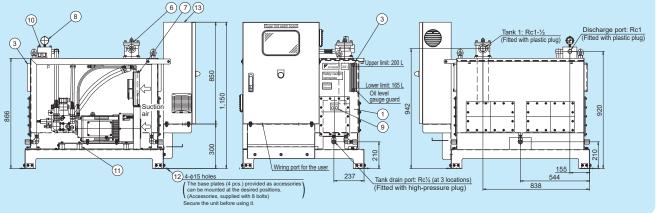


Unit type





Part No.	Name	Quantity
1	Oil tank	1
2	Motor pump	1
3	Oil level gauge	2
4	Oil filler port-cum-air breather	1
5	Suction strainer	1
6	Return filter	1
7	Oil cooler	1
8	Pressure gauge	1
9	Thermometer	1
10	Outlet block	1
11	Vibration-absorbing rubber	6
12	Foundation plate	1
13	Electrical cabinet	1



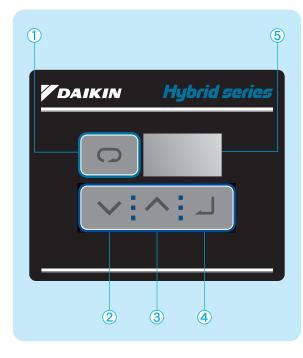
21

MPa

Part names, functions, and the operation

Using the key switches on the Super Unit controller, you can monitor the pressure and flow rate and set or change parameters.

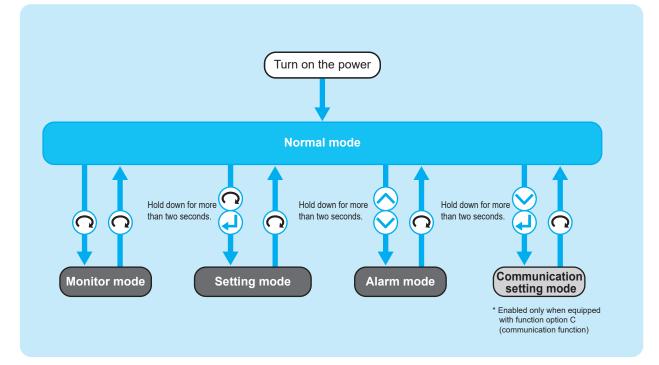
Outline of Functions



NO.	Item	Description				
1	[MODE] key	Selects the operation mode.				
2	[DOWN] key	Decrements a value set for the operation mode/monitor mode/data.				
3	[UP] key	Increments a value set for the operation mode/monitor mode/data.				
4	[ENT] key	Confirms the edited operation mode/monitor mode/data.				
5	Data display	Normal mode: Displays the actual pressure or alarm code. Monitor mode: Displays the pressure switch setting, each pressure setting, each flow rate setting, the actual flow rate, or the actual rotation speed. Setting mode: Set or change the pressure, flow rate, or other parameters. Alarm mode: Check the alarm history. Communication setting mode: Change communication settings.				

Mode selection

To go to the monitor mode or return to the normal mode from other modes, press the \bigcirc key. To go to other modes, press and hold down a combination of relevant keys for 2 seconds.





Monitor mode

Item No.	Name	Unit	Description
n00 *1	Pressure switch setting	MPa ×10PSI	[When the PSI unit is selected: ×10 PSI] Displays the pressure switch setting.
n01 *1	Pressure setting	MPa ×10PSI	[When the PSI unit is selected: ×10 PSI] Alternately displays the high (single flow) and low (combination flow) pressure settings for the current P-Q selection number.
n02	Flow rate setting	L/min	Alternately displays the high (single flow) and low (combination flow) flow rate settings for the current P-Q selection number.
n03	Flow rate	L/min	Displays the current flow rate (theoretical value).
n04 *2	Latest alarm code	_	Displays the alarm code of the alarm that occurred most recently. The current power ON count can be checked by pressing the key. Press the key to check how many times the power has been turned on so far.
n05	Motor rotation speed	×10min ⁻¹	Displays the current rotation speed of the motor.
			[SUT××D] Displays the solenoid valve switching status: "Low pressure [L]" (combination flow) or "High pressure [H]"(single flow), and the P-Q selection number.
n06	Operation status	_	Example: L-1 Combination flow (low pressure) - P-Q selection No. 1 [SUT**S] Displays the low pressure status [L] and P-Q selection number or the selected P-Q selection number only. Example: L-1 Combination flow (low pressure) - P-Q selection No. 1 Example: D.D.2 P-Q selection No. 2
n07	Reverse rotations at power OFF	min-1	Displays the total number of rotations of the motor when it rotates in the reverse direction due to reverse flow from the load when the power supply for the unit is turned OFF. This value is used to estimate the machine load volume.
n08	Regenerative load integration ratio	%	Displays the regenerative load integration ratio of the current regenerative braking resistance.
n10	Motor temperature	°C	Displays the temperature of the motor.
n11	Heat emission fin temperature	°C	Displays the temperature of the heat emission fins of the controller.
n12			Displays the controller's internal circuit voltage. The indicated voltage is a value equivalent to "power supply voltage $\sqrt{2}$ ". The main circuit voltage may vary depending on the operating conditions and momentarily exceed 350 V due to a regenerative current during deceleration and other operations. However, this is not abnormal.
n13 *3	Pressure command		Displays the input voltage at analog input terminal AIN1.
n14 *3	Flow rate command		Displays the input voltage at analog input terminal AIN2.
n15 *3	Actual pressure		Displays the output voltage at analog output terminal AO1.
n16 *3	Actual flow rate	1	Displays the output voltage at analog output terminal AO2.

The following items can be checked in the monitor mode.

*1: The default setting is displayed in MPa (standard display unit). If you change the display unit to PSI, ensure that you indicate in some manner that the monitor value is displayed using the PSI unit (attach a label, etc). However, use of the PSI unit in Japan is subject to punishment under the Measurement Law. Users should supply their own unit indication labels.

*2: You can check the current power ON count by pressing the low key when an alarm code is displayed. For details on alarm codes, refer to the alarm descriptions in the Operation Manual. *3: Enabled only when equipped with function option P (analog input function)

Setting mode

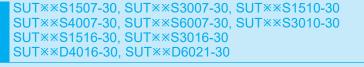
The following data can be set in the setting mode. For details on the settings, refer to the Operation Manual of the relevant model since they vary depending on the model.

- The pressure, flow rate, acceleration time, deceleration time, etc., to be set for multi-stage pressure/flow rate control
- Enable/disable setting of pressure switch functions
- · Display unit selection

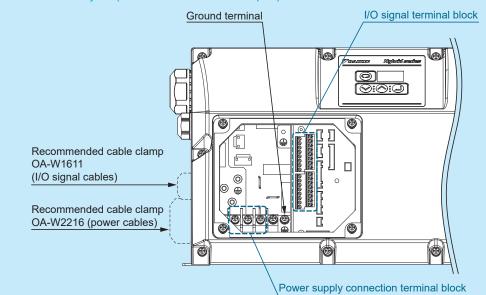
- Dry run judging pressure, time, etc.
- Various control gains

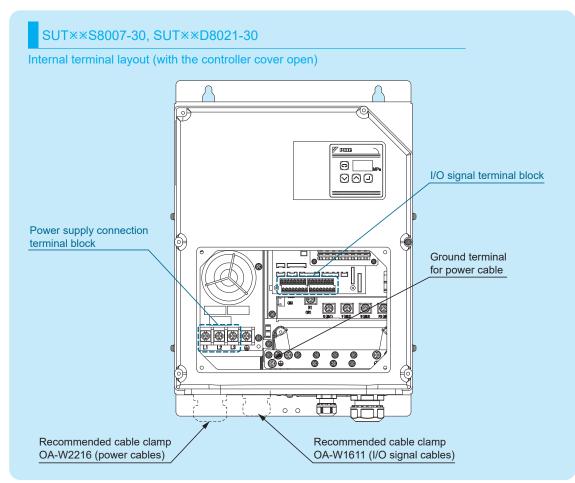
Electric Wiring

Power supply and I/O signal cables



Internal terminal layout (with the controller cover open)

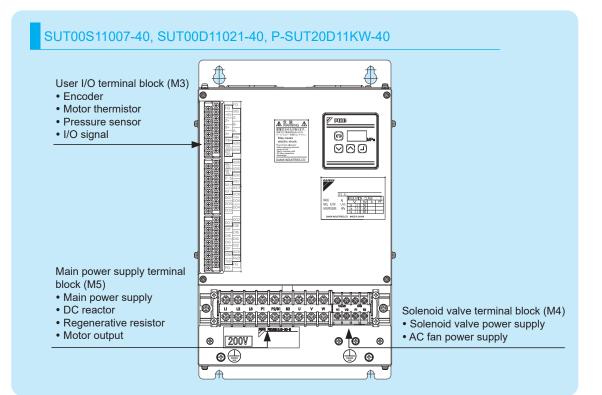


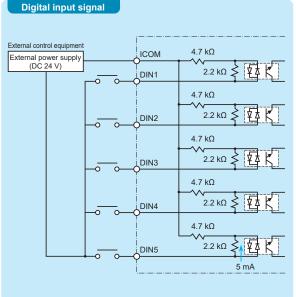


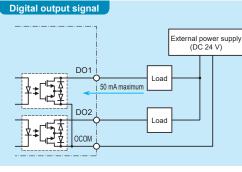
* Main power supply connections: Connect a 3-phase AC power supply (200 V/50 Hz, 200 V/60 Hz, or 220 V/60 Hz) to the power supply terminals (L1, L2 and L3), and connect a ground cable to the ground terminal.

* I/O signal connections: Connect digital input terminals, digital output terminals, and contact output terminals as shown on Page 42.

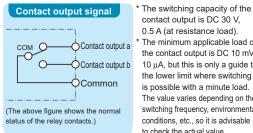








* The digital output common terminal can be either positive or negative. * Prepare an external power supply (DC 24 V ± 1 V, 0.5 A or more). * The maximum output current of the output circuit is 50 mA per channel.



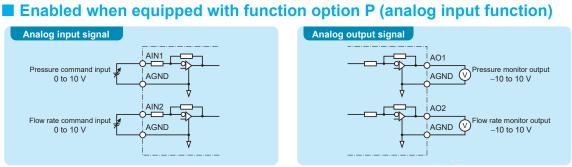
contact output is DC 30 V, 0.5 A (at resistance load). The minimum applicable load of the contact output is DC 10 mV, 10 $\mu\text{A},$ but this is only a guide to

* The digital input common terminal can be either positive or negative. * Prepare an external power supply (DC 24 V ± 1 V, 0.5 A or more). * The current of the input circuit is 5 mA per channel.

the lower limit where switching is possible with a minute load.

The value varies depending on the switching frequency, environmental conditions, etc., so it is advisable to check the actual value.





Harness specifications(to be prepared by the customer)

		Power supply		I/O signal cable			
Model code	Cable size	Recommended cable	Recommended crimp terminal	Recommended cable clamp	Cable size	Recommended cable	Recommended cable clamp
SUT**S1507 SUT**S3007 SUT**S1510 SUT**S3010 SUT**S1516 SUT**S3016	2.5 mm² or more (AWG14 or larger size)	CE362 2.5 mm ² × 4 wires (KURAMO ELECTRIC)	RBV2-4	OA-W2213 (OHM ELECTRIC) Applicable cable outer diameter: $\phi 9$ to $\phi 13$	0.3 to 0.5 mm ² (AWG20 to 22)		
SUT××S6007	4.0 mm² or more (AWG12 or larger size)	CE362 4.0 mm ² × 4 wires (KURAMO ELECTRIC)	RBV5.5-4	OA-W2216 (OHM ELECTRIC) Applicable cable outer diameter: \phi13 to \phi16	(((()))))		
SUT××S8007	6.0 mm² or more (AWG10 or larger size)	CE362 6.0 mm ² × 4 wires (KURAMO ELECTRIC)	RBV5.5-5	OA-W2219 (OHM ELECTRIC) Applicable cable outer diameter: \phi15 to \phi19	0.3 to 1.0 mm ² (AWG16 to 22)	KVC-36SB	OA-W1611 (OHM ELECTRIC) Applicable cable outer diameter:
SUT××D4016	2.5 mm² or more (AWG14 or larger size)	CE362 2.5 mm ² × 4 wires (KURAMO ELECTRIC)	RBV2-4	OA-W2216 (OHM ELECTRIC) Applicable cable outer diameter: \u03c813 to \u03c816	0.3 to 0.5 mm ²	0.3 - 0.5 mm²	φ9 to φ11
SUT××D6021	4.0 mm² or more (AWG12 or larger size)	CE362 4.0 mm ² × 4 wires (KURAMO ELECTRIC)	- RBV5.5-5	OA-W2216 (OHM ELECTRIC) Applicable cable outer diameter: \u03c813 to \u03c816	(AWG20 to 22)		
SUT**D8021	6.0 mm² or more (AWG10 or larger size)	CE362 6.0 mm ² × 4 wires (KURAMO ELECTRIC)		OA-W2219 (OHM ELECTRIC) Applicable cable outer diameter: \phi15 to \phi19	0.3 to 1.0 mm ² (AWG16 to 22)		
SUT00S11007 SUT00D11021	10 mm ² or more	CE362 10.0 mm ² × 4 wires (KURAMO ELECTRIC)	R8-5	_	0.3 to 0.5 mm ² (AWG20 to 22)		_

The harnesses that need to be prepared by the customer are as follows.

	Power supply cable for solenoid valve output					
Model code	Recommended cable	Recommended crimp terminal				
SUT00S11007 SUT00D11021	CE362 0.5 mm ² × 3 wires (KURAMO ELECTRIC)	(Controller side) RBA1.25-4 (Solenoid valve side) RBA1.25-3				

		Motor cabl	е	AC fan power sup	oply cable	Motor thermistor harness		
Model	Model code	Recommended cable	Recommended crimp terminal	Recommended cable	Recommended crimp terminal	Recommended cable	Recommended crimp terminal	
	SUT00S11007 SUT00D11021	CE362 10 mm ² × 4 wires (KURAMO ELECTRIC)	(Controller side) R8-5 (Motor side) R8-6	CE362 0.5 mm ² × 3 wires (KURAMO ELECTRIC)	(Controller side) RBA1.25-3	KVC-36SB 0.3 to 0.5 mm ² (KURAMO ELECTRIC)	(Controller side) RBA1.25-3 (Motor side) RBA1.25-3.5	

Harness specifications (options for SUT00S11007/SUT00D11021)

The encoder harness and pressure sensor harness for SUT00S11007/SUT00D11021 are options and can be ordered separately.

If preparing your own harnesses, make the harness length no greater than 5 m.

Nama	Super	Model code	Terminal speci	fications	Cable	specifications	5	Ferrite core/ Ring core
Name	Unit Design No.	Model code	SUT unit	Controller side	Cable type	Cable gauge	Cable length	(recommended)
Encoder harness	10, 20, 30, 40	PM-SEH05-P22-A09R	Contact 170366-1 Housing 172169-1 (All manufactured by AMP)	Round terminal with a vinyl insulation sheath (PBA1.25-3) (Manufactured by JST)	KVC-36SB (KURAMO ELECTRIC)	AWG22 (0.3 mm ²)	5 m	Not required
Pressure sensor	10, 20	PM-SPH05 (with a ferrite core)	Contact 171630-1 Rubber cap 172746-1 Housing 174357-2	Round terminal with a vinyl insulation sheath	KVC-36SB (KURAMO	AWG20 (0.5 mm²)	5 m	Ferrite core TFCM-16-8-16 (Kitagawa Industries) or equivalent
harness	30	PM-SPH05-003 (with a ring core)	Double lock plate 1-174358-1 (All manufactured by AMP)	(PBA1.25-3) (Manufactured by JST)	ELECTRIC)			Ring core Equivalant to R-47/27/15 (A) MA055 (JFE)



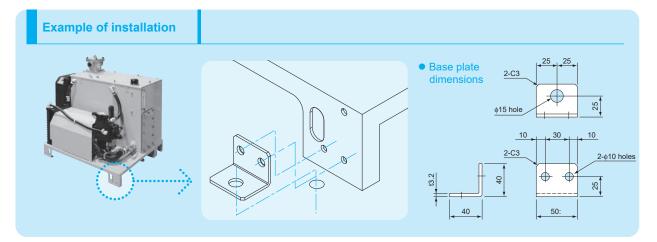
Unit accessory

The following optional parts can be purchased separately from the Super Unit. These parts are to be mounted by the user.

Base plate set

These parts are used to fasten the Super Unit to a floor surface. The bolts for mounting the unit to the floor should be prepared by the user.

Model code	Applicab	le model	Color	Assessarias	
	Unit type: Single pump type Unit type: Double pump type		COIOI	Accessories	
E-SUTPLATE-2	SUT03S1507-30 SUT03S3007-30 SUT06S6007-30 SUT10S8007-30 SUT03S1510-30 SUT03S10-30 SUT03S1516-30 SUT03S4007-30 SUT06S3016-30	SUT06D4016-30 SUT06D6021-30 SUT10D6021-30 SUT10D8021-30 SUT16D8021-30	Ivory white (Munsell code 5Y7.5/1)	 (1) Base plate (4 pcs) (2) Tank fastening bolt (8 pcs) (3) Plain and spring washers for the above parts (8 pcs each) 	



Level switch

Model code	Operating voltage	Operating current	Contact resistance	Protection class	Oil level triggering alarms	CE standard
E-DLSN-130L-A-10					SUT03 (with 30 L tank) 21 L maximum Closed SUT06 (with 60 L tank) 50 L maximum Closed SUT10 (with 100 L tank) 83 L maximum Closed SUT16 (with 160 L tank) 135 L maximum Closed	
E-DLSN-130L-B-10	AC 100/110 V DC 24 V		1 Ω maximum	IP65	SUT03 (with 30 L tank) 21 L maximum Open SUT06 (with 60 L tank) 50 L maximum Open SUT10 (with 100 L tank) 83 L maximum Open SUT16 (with 160 L tank) 135 L maximum Open	N/A
E-DLSN-170L-A-10					SUT06 (with 60 L tank) 45 L maximum Closed SUT10 (with 100 L tank) 75 L maximum Closed SUT16 (with 160 L tank) 123 L maximum Closed	
E-DLSN-170L-B-10					SUT06 (with 60 L tank) 45 L maximum Open SUT10 (with 100 L tank) 75 L maximum Open SUT16 (with 160 L tank) 123 L maximum Open	

* Directly mountable on the Rc1/2 option port on the top face of each tank.

Temperature switch

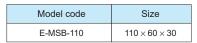
Model code	Operating voltage	Operating current	Contact resistance	Protection class	Oil level triggering alarms	CE standard
E-MQT83PD-L60X1-10	AC 100 V DC 24 V	2 A 50 mA	30 mΩ maximum	IP65	60°C	N/A

 * Directly mountable on the Rc3/8 option port on the top face of each tank.

Thermometer

Model code	Thermometer specification	Temperature indication range	Size
E-RBT-100-200L	Bimetal type	0 to 100°C	φ 4 5

Micro separator



Bracket/Piping Set for Manifolds

In order to install a control system on the Super Unit, select a bracket and piping set for the manifold according to the control system's size and number of series. Please prepare a manifold block separately.

Super Unit			Installation of 02 Size Control Systems					
Madalasda	Taula ann aite	Determ filter	Manifold bracket	Piping set				
Model code	Tank capacity	Return filter	Model code	Model code	Part Configuratio			
SUT03S1507-30				E-SUT03S1507N-PIPE-02				
SUT03S1510-30			E-SUT03BASE-402 (Maximum installable series : 4)	E-SUT03S1510N-PIPE-02				
SUT03S1516-30			[Mountable manifold blocks]	E-SUT03S1516N-PIPE-02				
SUT03S3007-30	30 L	Not provided	BT-102-50 (1 series) to BT-402-50 (4 series) or	E-SUT03S3007N-PIPE-02				
SUT03S3010-30		BT-102-50-140 (1 series) to BT-402-50-140 (4 series) E-SUT03S3	E-SUT03S3010N-PIPE-02					
SUT03S4007-30				E-SUT03S4007N-PIPE-02				
SUT06S3016-30		- Provided	E-SUT06BASE-302 (Maximum installable series : 3)	E-SUT06S3016F-PIPE-02	2			
SUT06S6007-30	60 L		[Mountable manifold blocks] BT-102-50 (1 series) to BT-302-50 (3 series) or	E-SUT06S6007F-PIPE-02				
SUT06D4016-30	00 L			E-SUT06D4016F-PIPE-02				
SUT06D6021-30			BT-102-50-140 (1 series) to BT-302-50-140 (3 series)	E-SUT06D6021F-PIPE-02				
SUT10D6021-30			E-SUT06BASE-602 (Maximum installable series : 6)	E-SUT10D6021F-PIPE-02	3			
SUT10S8007-30	100 L		[Mountable manifold blocks] BT-102-50 (1 series) to BT-602-50 (6 series)	E-SUT10S8007F-PIPE-02				
SUT10D8021-30			or	E-SUT10D8021F-PIPE-02				
SUT16D8021-30	160 L		BT-102-50-140 (1 series) to BT-602-50-140 (6 series)	E-SUT16D8021F-PIPE-02				

Super Unit			Installation of 03 Size Control Systems			
Model code	Tank sanasih	Return filter	Manifold bracket	Piping set		
woder code	Tank capacity	Return liller	Model code	Model code	Part Configuration	
SUT03S1507-30				E-SUT03S1507N-PIPE-03		
SUT03S1510-30				E-SUT03S1510N-PIPE-03		
SUT03S1516-30			E-SUT03BASE-203 (Maximum installable series : 2) [Mountable manifold blocks]	E-SUT03S1516N-PIPE-03	0	
SUT03S3007-30	30 L	Not provided	BT-103-40 (1 series), BT-203-40 (2 series)	E-SUT03S3007N-PIPE-03	\bigcirc	
SUT03S3010-30					E-SUT03S3010N-PIPE-03	
SUT03S4007-30				E-SUT03S4007N-PIPE-03		
SUT06S3016-30				E-SUT06S3016F-PIPE-03	2	
SUT06S6007-30	60 L		E-SUT06BASE-203 (Maximum installable series : 2)	E-SUT06S6007F-PIPE-03	3	
SUT06D4016-30	00 L		[Mountable manifold blocks]	E-SUT06D4016F-PIPE-03	(4)	
SUT06D6021-30		Provided	BT-103-40 (1 series), BT-203-40 (2 series)	E-SUT06D6021F-PIPE-03	J	
SUT10D6021-30		Fiovided	E-SUT06BASE-403 (Maximum installable series : 4)	E-SUT10D6021F-PIPE-03		
SUT10S8007-30	100 L		[Mountable manifold blocks]	E-SUT10S8007F-PIPE-03	3	
SUT10D8021-30			BT-103-40 (1 series), BT-403-40 (4 series)	E-SUT10D8021F-PIPE-03	٢	
SUT16D8021-30	160 L			E-SUT16D8021F-PIPE-03		

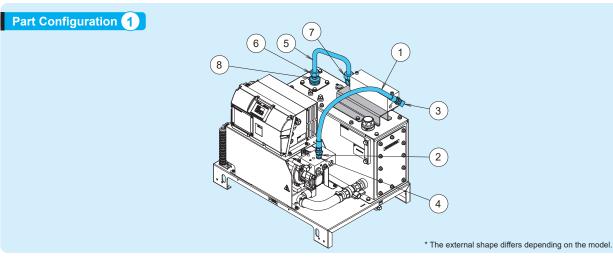
Component parts

Manifold bracket

Model code	Maximum installable series	Accessories					
E-SUT03BASE-402	4-series		Hexagon socket head	Hexagon socket head cap			
E-SUT06BASE-302	3-series			bolt for mounting manifold			
E-SUT06BASE-602	6-series	 Bracket body Hexagon bolt (M8 × 16) 	1 pc. 4 pcs.	(M8 × 85) 2 pcs.			
E-SUT03BASE-203	2-series	Flat washer (M8)	4 pcs. 4 pcs.	Hexagon socket head cap			
E-SUT06BASE-203	2-series		•	bolt for mounting manifold			
E-SUT06BASE-403	4-series	(M8 × 105		(M8 × 105) 4 pcs.			



Piping set

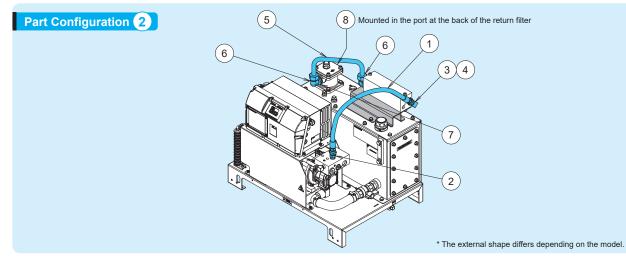


• For installing 02 size control systems

Model code		Name	Quantity	Tightening torque (N·m)	
	1	Hydraulic hose	1	54.0 to 66.0	
	2	Hose adaptor (straight)	1	43.0 to 47.5	
E-SUT03S1507N-PIPE-02	3	Hose adaptor (elbow)	1	43.0 to 47.5	E-
E-SUT03S1510N-PIPE-02	4		-		E-
E-SUT03S1516N-PIPE-02	5	Steel pipe	1	100.0 to 120.0	E-
E-SUT03S3007N-PIPE-02	6	Steel piping joint (straight)	1	28.5 to 33.0	E-
E-SUT03S3010N-PIPE-02	7	Steel piping joint (elbow)	1	28.5 to 33.0	E-
	8	Bushing	1	95.0 to 110.0	
	9	Installation guide	1		
	1	Hydraulic hose	1	54.0 to 66.0	
	2	Hose adaptor (straight)	1	64.0 to 70.0	
	3	Hose adaptor (elbow)	1	43.0 to 47.5	
	4		-		
E-SUT03S4007N-PIPE-02	5	Steel pipe	1	100.0 to 120.0	E-
	6	Steel piping joint (straight)	1	28.5 to 33.0	
	7	Steel piping joint (elbow)	1	28.5 to 33.0	
	8	Bushing	1	95.0 to 110.0	
	9	Installation guide	1		

• For installing 03 size control systems

o				
Model code		Name	Quantity	Tightening torque (N·m)
	1	Hydraulic hose	1	54.0 to 66.0
	2	Hose adaptor (straight)	1	43.0 to 47.5
E-SUT03S1507N-PIPE-03	3	Hose adaptor (elbow)	1	64.0 to 70.0
E-SUT03S1510N-PIPE-03	4	Bushing	1	110.0 to 120.0
E-SUT03S1516N-PIPE-03	5	Steel pipe	1	247.0 to 286.0
E-SUT03S3007N-PIPE-03 E-SUT03S3010N-PIPE-03	6	Steel piping joint (straight)	1	95.0 to 110.0
	7	Steel piping joint (elbow)	1	57.0 to 66.0
	8		—	
	9	Installation guide	1	
	1	Hydraulic hose	1	108.0 to 132.0
	2	Hose adaptor (straight)	1	64.0 to 70.0
	3	Hose adaptor (elbow)	1	110.0 to 120.0
	4		_	
E-SUT03S4007N-PIPE-03	5	Steel pipe	1	247.0 to 286.0
	6	Steel piping joint (straight)	1	95.0 to 110.0
	7	Steel piping joint (elbow)	1	57.0 to 66.0
	8		_	
	9	Installation guide	1	



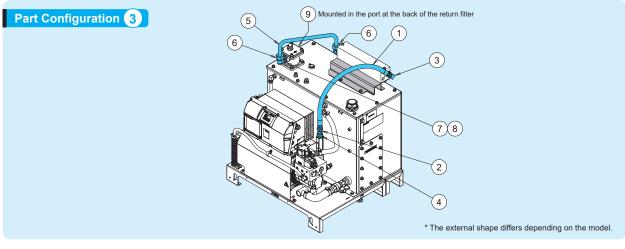
• For installing 02 size control systems

• For installing 03 size control systems

Model code		Name	Quantity	Tightening torque (N·m)	[
	1	Hydraulic hose	1	54.0 to 66.0	
	2	Hose adaptor (straight)	1	43.0 to 47.5	
	3	Hose adaptor (elbow)	1	43.0 to 47.5	
	4		—		
E-SUT06S3016F-PIPE-02	5	Steel pipe	1	100.0 to 120.0	
	6	Steel piping joint (elbow)	2	28.5 to 33.0	
	7	Bushing	1	57.0 to 66.0	
	8	Plug	1	95.0 to 110.0	
	9	Installation guide	1		

Model code		Name	Quantity	Tightening torque (N·m)		
	1	Hydraulic hose	1	54.0 to 66.0		
	2	Hose adaptor (straight)	1	43.0 to 47.5		
	3	Hose adaptor (elbow)	1	64.0 to 70.0		
	4	Bushing	1	110.0 to 120.0		
E-SUT06S3016F-PIPE-03	5	Steel pipe	1	247.0 to 286.0		
	6	Steel piping joint (elbow)	2	95.0 to 110.0		
	7		_			
	8	Plug	1	95.0 to 110.0		
	9	Installation guide	1			

Piping set



• For installing 02 size control systems

• For installing 03 size control systems

Quantity Tightening torque (N·m) 108.0 to 132.0

110.0 to 120.0 110.0 to 120.0

247.0 to 286.0 57.0 to 66.0

95.0 to 110.0

108.0 to 132.0

110.0 to 120.0 110.0 to 120.0

247.0 to 286.0 57.0 to 66.0

114.0 to 132.0

142.5 to 165.0

Quantity Tightoning targue (Nm)

1

1

1

1

2

1

1

1

1

1

1

2

1 _

1

1

Model code		Name	Quantity	Tightening torque (N·m)		Model code		Name	G
	1	Hydraulic hose	1	54.0 to 66.0				Hydraulic hose	
	2	Hose adaptor (straight)	1	64.0 to 70.0				Hose adaptor (straight)	
	3	Hose adaptor (elbow)	1	43.0 to 47.5			3	Hose adaptor (elbow)	
E-SUT06S6007F-PIPE-02	4	High-pressure bushing	1	110.0 to 120.0			4		
E-SUT06D4016F-PIPE-02	5	Steel pipe	1	100.0 to 120.0		E-SUT06S6007F-PIPE-03	5	Steel pipe	
E-SUT06D6021F-PIPE-02	6	Steel piping joint (elbow)	2	28.5 to 33.0		E-SUT10D6021F-PIPE-03	6	Steel piping joint (elbow)	
E-SUT10D6021F-PIPE-02	7	Low-pressure bushing	1	57.0 to 66.0			7		
	8		—				8		
	9	Plug	1	95.0 to 110.0				Plug	
	10	Installation guide	1					Installation guide	
	1	Hydraulic hose	1	54.0 to 66.0] [1	Hydraulic hose	Γ
	2	Hose adaptor (straight)	1	43.0 to 47.5			2	Hose adaptor (straight)	
	3	Hose adaptor (elbow)	1	43.0 to 47.5			3	Hose adaptor (elbow)	
	4	High-pressure bushing	1	110.0 to 120.0			4		
E-SUT10S8007F-PIPE-02 E-SUT10D8021F-PIPE-02	5	Steel pipe	1	100.0 to 120.0		E-SUT10S8007F-PIPE-03 E-SUT10D8021F-PIPE-03	5	Steel pipe	
E-SUT16D8021F-PIPE-02	6	Steel piping joint (elbow)	2	28.5 to 33.0		E-SUT16D8021F-PIPE-03	6	Steel piping joint (elbow)	
	7	Low-pressure bushing (small)	1	57.0 to 66.0		2 00110200211 1 11 2 00	7	Bushing	
	8	Low-pressure bushing (large)	1	114.0 to 132.0			8		
	9	Plug	1	142.5 to 165.0			9	Plug	ſ
	10	Installation guide	1				10	Installation guide	ſ

Part Configuration 4	6 Mounted in the po	nt at the back of the return filter
		(2)
		3
	<u>e.</u>	* The external shape differs depending on the model.

• For installing 03 size control systems Model and Maria

Т

woder code	indille G		Quantity	Ingitiering torque (14411)
	1	Hydraulic hose	1	108.0 to 132.0
	2	Hose adaptor (elbow)	2	110.0 to 120.0
E-SUT06D4016F-PIPE-03 E-SUT06D6021F-PIPE-03	3	Female-male elbow	1	110.0 to 120.0
	4	Steel pipe	1	247.0 to 286.0
	5	Steel piping joint (elbow)	2	57.0 to 66.0
	6	Plug	1	95.0 to 110.0
		Installation guide	1	

Pa



Memo

Method of Selection

How to Select a Super Unit

How to Select a SUPER UNIT

- 1. Determine the cylinder that requires the maximum pressure and flow rate.
- 2. To operate several cylinders simultaneously, calculate the pump discharge rate required for each circuit. Refer to (6) below.

F: Load (N)

A: Pressurized area of the cylinder (cm²)

The pressurized area varies

the hydraulic cylinder

V: Speed (cm/sec)

P: Valve pressure loss +

g1: Flow rate loss (L/min)

to (1) the pressure reducing

reducing valve diameter.

Set the flow rate loss according

valve type, and (2) the pressure

depending on the specifications of

Piping pressure loss (MPa)

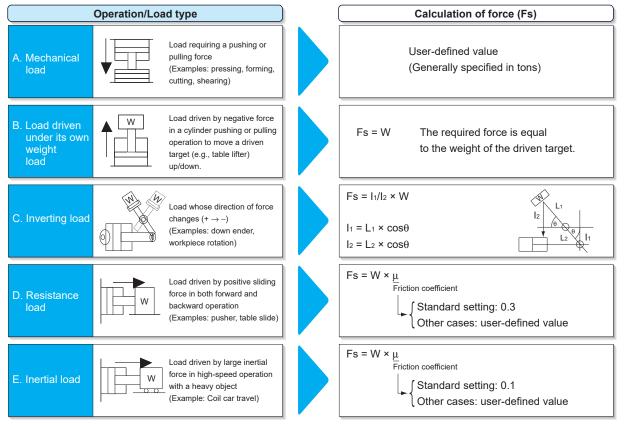
- (1) Calculation of cylinder output (see the calculation formula for each load) Calculate the force F (N) required for the cylinder.
- (2) Calculation of the required pressure (Pu) of the cylinder (Pu = F/A) Based on the force (F) and pressurized area (A), calculate the net pressure (Pu; MPa) required for the cylinder.
- (3) Calculation of the required pressure (Pp) of the pump (Pp = Pu + ∠|P) Calculate the pressure Pp (MPa) required for the pump by adding the total pressure loss P to the pressure (Pu) required for the cylinder.
- (4) Calculation of the net required discharge rate (Qc) of the cylinder (Qc = A × V × 0.06) Based on the cylinder speed (V) and pressurized area (A), calculate the net discharge rate (Qc; L/min) of the cylinder.
- (5) Calculation of the required discharge rate (Qp) of the pump Add the flow rate loss to the net discharge rate (Qc) of the cylinder.
- (6) Total required discharge rate (Qp) of the pump Calculate the maximum required discharge rate of the pump by totaling the (Qp) values of the cylinders to be simultaneously operated.

3. Based on the maximum required pump pressure (Pp) and pump discharge rate (Qp), select the Super Unit size.

By referring to the "Pressure – Flow Rate Characteristics" charts (on Pages 13 and 14), select a model such that the Pp and Qp values of all cylinders fall within the P-Q curve.

(Reference) Load analysis (cylinder output)

Calculate the cylinder force (Fs) depending on the operation and load type.



Handling



The following are the minimum requirements for use of the Super Unit. For details, refer to the unit's Instruction Manual.

Ambient conditions

1. Ambient temperature: 0 to 40°C, ambient humidity: 85%RH maximum (with no condensation), altitude: 1,000 m maximum, to be used indoors

• Hydraulic oil

- 1. Use general petroleum hydraulic oil (R&O) or wear-resistant hydraulic oil. If use of hydrous or synthetic oil is intended, consult Daikin.
- Use hydraulic oil equivalent to ISO VG32 to 68 and operate the unit within an oil viscosity range from 15 to 400 mm²/s and a tank oil temperature from 0 to 60°C. The recommended operating range is from 15 to 50°C (20 to 200 mm²/s).
- 3. Keep contamination of hydraulic oil within NAS class 9, or NAS class 10 for 7 MPa or lower pressure.

Installation and piping

- 1. This hydraulic unit mounts the motor pump using vibration-absorbing rubber to prevent pump vibration being transmitted to the unit. Use hoses for piping to the unit to provide flexibility.
- 2. The unit is a stationary type. Fix it with bolts on a level location that is free of vibration.
- 3. Keep obstacles that will obstruct air intake and emission at least 100 mm away from the end face of the unit. Install the unit at a location with good air flow so that heated air can be vented.
- 4. Use hoses for piping to provide flexibility.
- 5. Before operating the unit, be sure to remove the wing bolt and spacer for protecting the rubber vibration isolator. If you fail to do so, the noise and vibration may be excessive.
- 6. Be sure to secure the space required to access the unit during electrical wiring at the noise filter box or control unit side.

Electric wiring

- 1. Install a no-fuse breaker and a ground fault interrupter compliant with European Standard EN60947-2 in the main power supply of this hydraulic unit, to protect the electrical circuits against shorting and overcurrent, and to prevent electric shocks.
- 2. Use suitable electric cable in accordance with the power supply capacity.
- 3. Be sure to provide a ground connection with a grounding resistance of 100 Ω maximum, and connect the grounding wire directly with no breaker in the line.
- 4. Take care not to leave waste metal such as screws and cutting chips, combustible matter such as wood waste or oil, or wiring debris inside the controller.
- 5. Use a commercial power supply for the power source. The use of an inverter power supply may cause burn damage to the unit.
- 6. Before accessing the interior of the controller, turn the unit's power supply OFF. Make sure that the circuit is turned OFF using the circuit breaker for the primary power supply, and then wait at least 5 minutes.

Other precautions

- 1. If a failure occurs in the hydraulic unit, the system indicates an alarm and stops.
- 2. If failure or malfunction of this unit is expected to cause death or pose a danger to human beings, adopt appropriate safety measures in the facilities. If this unit is used in an important facility, also adopt appropriate safety measures in the facility to ensure that a failure of the equipment will not lead to a serious accident or loss.
- 3. It takes approximately 3 seconds for this hydraulic unit to start up after being powered ON. Depending on the piping conditions, the unit may take longer to increase the pressure to the pressure switch's preset level, resulting in pressure switch signal output. In this case, set the machine up so that it will not accept this alarm output during this period.
- 4. Do not turn the power OFF/ON with the main power breaker frequently. It may damage controller components. (Use the "run/stop" digital input signals for frequent power OFF/ON control.)





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Oil Hydraulic Equipment

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