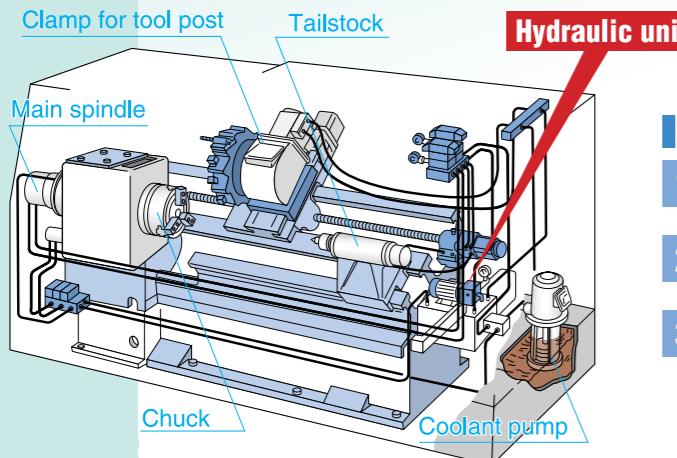


# ECORICH

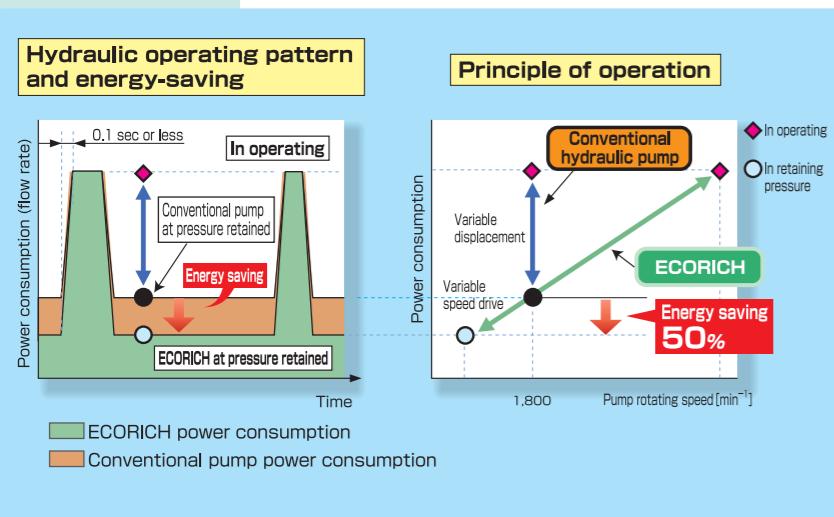
## Hydraulic unit

### Fusion of Hydraulic and Motor/Inverter Technology

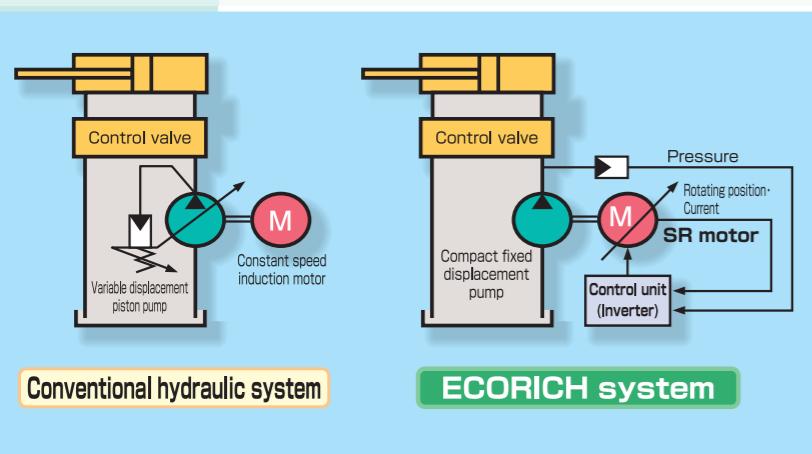
First in the world



#### Principle of energy saving



#### System configuration

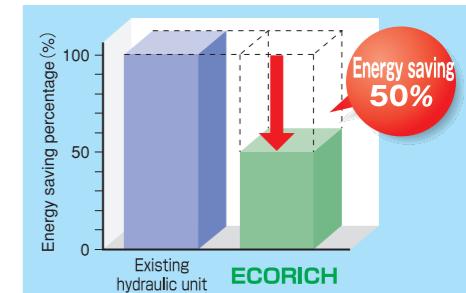


### Energy saving

#### Energy saving 50%

(Compared to our product, when pressure is retained)

- ◆ Drastic energy saving by reducing the motor rotating speed under pressure-retained condition.
- ◆ Our original SR motor control unit of high efficiency and compact fixed-displacement pump are applied.



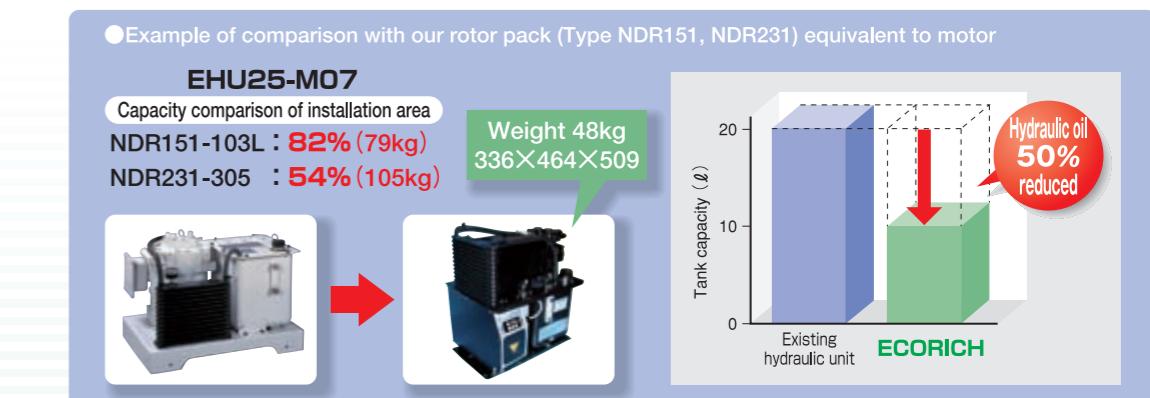
### High-speed response

- ◆ Special SR motor, which has low inertia and generates high torque at low speed, and high-speed response inverter.

- ◆ Response equivalent to or higher than conventional variable displacement pump. (Pressure retained ⇔ Operation at maximum flow rate: 0.1 sec or less)

### Compact design and resources saving

- ◆ Resources-saving design with compact, lightweight and simple structure with no permanent magnet.
- ◆ Minimized fluid is supplied at low-speed rotation to improve the hydraulic oil in deterioration.



### Specifications

Tank capacity	10 l			
Motor capacity	equivalent to 0.75 kW	equivalent to 1.5 kW	equivalent to 2.2 kW	equivalent to 2.8 kW
Max. working pressure	4~14 MPa	5~25 MPa	7.0 MPa	6.0 MPa
Discharge adjusting range	4~14 l/min	5~25 l/min	5~25 l/min	5~28.5 l/min
Model	EHU14-L04	EHU25-L04	EHU25-L07	EHU30-M07



# Specification List

## ECORICH



### Specifications

Model	EHU14-L04	EHU25-L04	EHU25-L07	EHU25-M07	EHU30-M07
Tank capacity (l)		10			
Motor capacity (Nominal)	Equivalent to 0.75 kW	Equivalent to 1.5 kW	Equivalent to 2.2 kW	Equivalent to 2.8 kW	
Max operating pressure (MPa)	4.0		7.0	6.0	
Pressure adjustment range <sup>*Note 1</sup> (MPa)	1.5~3.5		1.5~7.0	1.5~6.0	
Discharge rate adjustment range <sup>*Note 2</sup> (l/min)	4~14		5~25	5~28.5	
Weight (kg)	43		45	46	
Capacity of fan motor for oil cooler		16/15W (50/60 Hz)			
Power supply	3-phase 200/200-220V AC, 50/60Hz	Allowable POWER fluctuation ±10%			
	Oil-cooler Fan Motor	2-Phases 200/200/220V, 50/60/60H (supported by the controller)			
Alarm output relay	DC12/24 V AC100V (50/60Hz)	The Max. Load Current : Below 1A (resistance load)			
Standard painted color		Black			
Usable oil <sup>*Note 3</sup>	Mineral oil based special hydraulic fluid/Abrasion resisting hydraulic fluid For recommended brands, refer to our "Hydraulic Equipment General Catalog (HK196A)". · Viscosity grade : ISO VG32~68 · Viscosity range : 15~400mm <sup>2</sup> /s (20~200 mm <sup>2</sup> /s recommended) · Contamination : Class NAS9 or lower				
Tank oil temperature	0 ~ 60 °C (Recommended : 15 ~ 50 °C)				
Ambient temperature	0 ~ 35 °C				
Ambient humidity	85% RH or lower				
Installation place	Indoors (Fix with bolts without fail.)				
Others	The no fuse breaker and an earth leakage breaker must be used.				

Note) \*1: The pressure is preset to be max pressure when delivered.

\*2: It is preset to be the Max. Discharge Rate when delivered. (the Max. Discharge Rate is a theoretical value but not an exact one.)

\*3: Other fluid (ex. water and glycol) than mineral oil base hydraulic fluid (hydrous or synthetic) can not be used.

### Nomenclature

EHU	**	-	*	-	**	-	*	*	-	**	*	**
1	2	3	4	5	6	7	8					

1 Basic

EHU : ECO-RICH EHU series

2 Pump maximum flow rate

14 : 14 l/min  
25 : 25 l/min  
30 : 28.5 l/min

3 Output characteristic

L : —  
M : —

4 Maximum operating pressure

04 : 4.0 MPa  
07 : 7.0 MPa

5 Control system

A : Pressure compensated control

6 Specifications of control unit

No symbol : With reactor  
(In case of EHU14 (25)-L04)  
E : With reactor  
(In case of EHU25-L07,M07,EHU30-M07)

7 Design No.

10 : EHU40R-M07  
May change according to model change.

8 Non-standard No.

No symbol : Standard

## ECORICH-R



### Specifications

Model	EHU15R-M0701	EHU15R-M0702	M30R-M0701	EHU30R-M0702	EHU40R-M07-A
Tank capacity (l)	10	20	10	20	30
Motor capacity (Nominal)	Equivalent to 2.2 kW	Equivalent to 2.8 kW	Equivalent to 3.7 kW		
Max operating pressure (MPa)		7.0			
Pressure adjustment range (MPa)	0.5~7.0				
Discharge rate adjustment range (l/min)	2.5~15.2				
Weight (kg)	39	40	41	42	68
Power supply	3-phase 200/200-220V AC, 50/60Hz (Allowable power fluctuation ±10%)	1-phase 200/200-220V AC, 50/60Hz (Supplied by controller)			
External input signal	3 points, Photocoupler insulation, DC 24V (Max. 27V) 5mA/1ch				
External output signal	Digital output (2ch)	Photo coupler insulation, open collector output, DC 24V 50mA Max/1ch			
	Point of contact output (1ch)	Relay output: Contact capacity 30V DC, 0.5A(Resistance load) 1ch contact			
Rated current	200V/50Hz	7.9A	10.9A	11.2A	
	200V/60Hz	7.7A	10.7A	10.9A	
	220V/60Hz	7.1A	9.7A	10.0A	
Standard painted color	Black				
Usable oil <sup>*Note 1</sup>	Mineral oil based special hydraulic fluid/Abrasion resisting hydraulic fluid For recommended brands, refer to our "Hydraulic Equipment General Catalog (HK196A)". · Viscosity grade : ISO VG32~68 · Viscosity range : 15~400mm <sup>2</sup> /s (20~200 mm <sup>2</sup> /s recommended) · Contamination : Class NAS10 or lower				
Tank oil temperature	0~60 °C (Recommended operating temperatures : 15 ~ 50 °C)				
Ambient temperature	0~35°C				
Ambient humidity	85% RH or lower				
Installation place	Indoors (Fix with bolts without fail.)				
Sea level	1,000m or lower				

Note) \*1: Other fluid (ex. water, glycol) other than mineral oil based hydraulic fluid (hydrate/synthetic) can not be used.

### Nomenclature

EHU	**	R	-	M	**	**	*	*	**	-	**	-	***
1	2	1			3	4	5	6	7		8		

1 Basic

EHU\*\*\*R : EcoRich R  
(IPMinstalled)

2 Pump maximum flow rate

15 : 15.2 l/min  
30 : 28.5 l/min

3 Maximum operating pressure

M07 : 7.0MPa

4 Tank capacity

01 : 10 l  
02 : 20 l

5 Hardware option

No symbol : Standard  
B : with terminal box

6 Function option

No symbol : Multi-step pressure / flow rate control function 4-pattern pressure

T : Flow rate control

7 Design No.

May change according to model change.

8 Non-standard graduated number

EHU	**	R	-	M	**	A	-	**	-	***
1	2	1			3	4	5	6		

1 Basic

EHU\*\*\*R : EcoRich R  
(IPMinstalled)

2 Pump maximum flow rate

40 : 40.0 l/min

3 Maximum operating pressure

M07 : 7.0MPa

4 Control mode

A : Pressure compensation control

5 Design No.

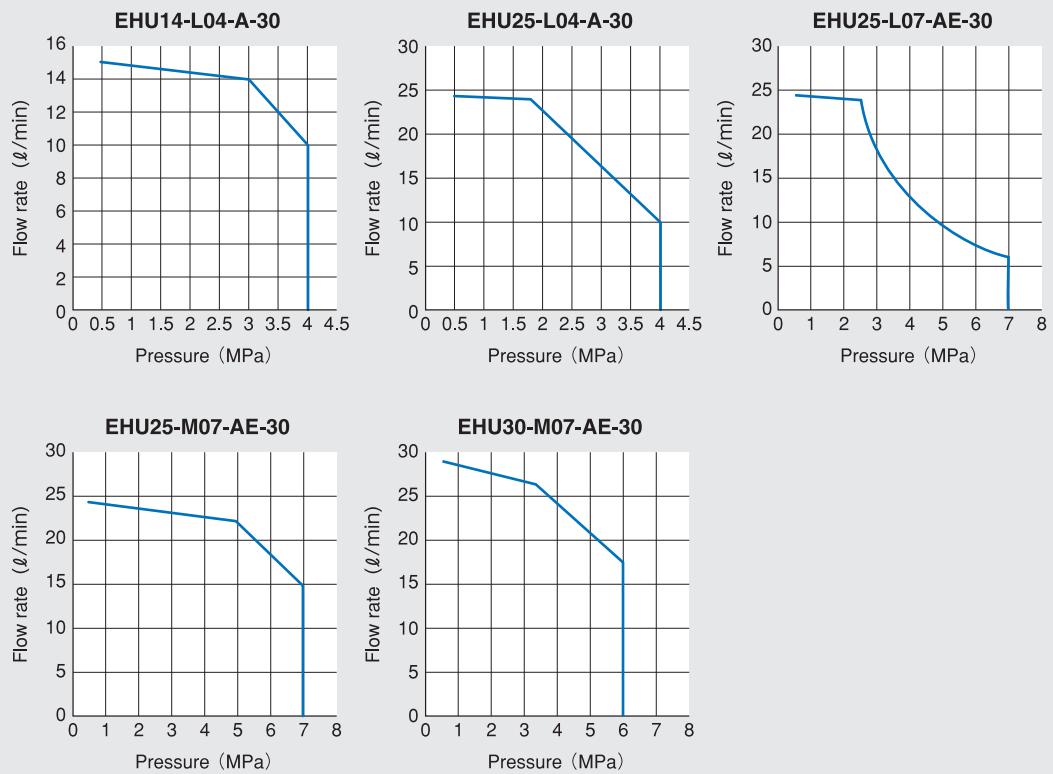
May change according to model change.

6 Non-standard graduated number

# Characteristics

## ECORICH

### ■ Output characteristics (P-Q characteristics)



## ECORICH-R

