Rheem® *Prestige*® Series

High Efficiency Tankless Gas Water Heating Solutions

ENERGY SAVINGS UP TO $1,100[1]

MAXIMUM WATER AND ENERGY SAVINGS, PLUS KEEPS INSTALL COSTS TO A MINIMUM

Available in both indoor and outdoor models, Rheem Ultra Low NOx, High Efficiency Tankless solutions are loaded with features to save on installation costs, time and servicing—while saving homeowners more money, water and space.

LOWER INSTALLATION COSTS

Installs with 2", 3" and 4" Schedule 40 PVC venting, which is easier to work with and lower cost than stainless steel, saving you money and time

BUILT-IN CONDENSATE NEUTRALIZER

Safely dispose of condensate without extra installation cost and time

Energy Factor	**.93** UEF
Venting Type	Vents with **Schedule 40 PVC**
Dimensions	**27-1/2" H x 18-1/2" W x 9-3/4" D**
Weight	**82 lbs.**
Warranty	Heat Exchanger: **12 Years** Residential; **5 Years** Commercial
	Parts: **5 Years**
	Labor: **1 Year**
Ultra Low NOx	**All Natural Gas Models**

NEW MODELS WITH ECONET INCLUDED

Description	199,900 BTU Max.
EcoNet WiFi Included: Indoor Direct Vent – Nat. Gas	RTGH-95DVELN-1
EcoNet WiFi Included: Indoor Direct Vent – LP. Gas	RTGH-95DVELP-1
EcoNet WiFi Included: Outdoor – Nat. Gas	RTGH-95XELN-1
EcoNet WiFi Included: Outdoor – LP Gas	RTGH-95XELP-1

Description	157,000 BTU Max.	180,000 BTU Max.	199,900 BTU Max.
Indoor Direct Vent – Nat. Gas	RTGH-84DVLN-1	RTGH-90DVLN-1	RTGH-95DVLN-1
Indoor Direct Vent – LP. Gas	RTGH-84DVLP-1	RTGH-90DVLP-1	RTGH-95DVLP-1
Outdoor – Nat. Gas	RTGH-84XLN-1	RTGH-90XLN-1	RTGH-95XLN-1
Outdoor – LP Gas	RTGH-84XLP-1	RTGH-90XLP-1	RTGH-95XLP-1

[1] *Based on comparison against 50-gallon tank type model with like fuel type. Savings based on Natural gas model; Savings higher for liquid propane models.*

Why Rheem® Tankless Gas Solutions?

WHY TANKLESS?

TANKLESS FEATURES

- Continuous hot water
- High energy efficiency
- Compact, space saving design
- Self diagnostic digital thermostat
- Precise temperature control
- No hot water storage
- Low operating costs
- High altitude installations to 10,000 ft – some models
- Low NOx emissions – all models
- Indoor and outdoor models available

TANK TYPE FEATURES

- Low first cost
- Low installation cost
- No electricity required
- Large variety of sizes available
- Flow rates of 12gpm and up
- High altitude installations to 10,000 ft.
- Low NOx emissions – some models

WHY RECIRCULATION?

By circulating hot water from the tankless unit, through the home's plumbing it can be ready at the faucet when needed.

Benefits include:

- Hot water without the wait or the waste
- On-demand or timer based pump activation means hot water ready at the tap when you need it
- The average household can save up to 12,000 gallons of water per year[1]
- Meets regional water saving regulations

WHY CONNECTED WATER HEATERS?

EcoNet®

Any Rheem tankless water heater from 2010 to present[2] can be connected to EcoNet for smart home integrated features, including:

- Water leak detection and system shut off (indoor models only)
- Mobile alerts for notifications/maintenance reminders
- Mobile gas and water usage reports
- Integration with NEST & WINK smart home systems

ANDROID APP ON Google play

Available on the App Store

[1] *Savings per News Bulletin released by the United States Department of Energy / Oak Ridge National Laboratory, November 2002 on study on water and energy savings in residential homes using Hot Water Recirculating System.*

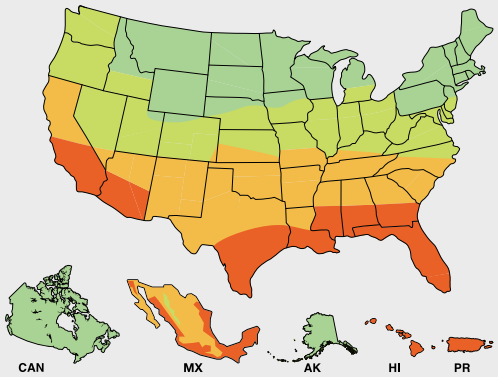
[2] *Excluding -RH models*

Selecting the Right Solution is as Easy as 1, 2, 3

HELP YOUR CUSTOMERS START SAVING TODAY

Learn more at **rheem.com/tanklessinnovation** or ask your local distributor

1. **Consider customer location**
2. **Assess their hot water needs**
3. **Review inlet temperature and recommend the best model for your customer**



Mid-Efficiency

Models rated at:	Indoor Model #	Inlet Temperature 37-47° Average GPM	Inlet Temperature 37-47° Approximate Usage	Inlet Temperature 47-57° Average GPM	Inlet Temperature 47-57° Approximate Usage	Inlet Temperature 57-62° Average GPM	Inlet Temperature 57-62° Approximate Usage	Inlet Temperature 62-77° Average GPM	Inlet Temperature 62-77° Approximate Usage
160,000 BTU/h	RTG-70DVLN-1 RTG-70XLN-1	3.5		4.0		4.5		5.5	
180,000 BTU/h	RTG-84DVLN-1 RTG-84XLN-1	3.8		4.3		5.1		6.1	
199,900 BTU/h	RTG-95DVLN-1 RTG-95XLN-1	4.1		4.7		5.5		6.6	

High Efficiency

Models rated at:	Indoor Model #	Inlet Temperature 37-47° Average GPM	Inlet Temperature 37-47° Approximate Usage	Inlet Temperature 47-57° Average GPM	Inlet Temperature 47-57° Approximate Usage	Inlet Temperature 57-62° Average GPM	Inlet Temperature 57-62° Approximate Usage	Inlet Temperature 62-77° Average GPM	Inlet Temperature 62-77° Approximate Usage
157,000 BTU/h	RTGH-84DVLN-1 RTGH-84XLN-1	3.9		4.3		5.0		6.0	
180,000 BTU/h	RTGH-90DVLN-1 RTGH-90XLN-1	4.5		4.9		5.8		6.9	
199,900 BTU/h	RTGH-95DVLN-1 RTGH-95XLN-1	5.0		5.5		6.4		7.7	

High Efficiency with Built-in Recirculation

Models rated at:	Indoor Model #	Inlet Temperature 37-47° Average GPM	Inlet Temperature 37-47° Approximate Usage	Inlet Temperature 47-57° Average GPM	Inlet Temperature 47-57° Approximate Usage	Inlet Temperature 57-62° Average GPM	Inlet Temperature 57-62° Approximate Usage	Inlet Temperature 62-77° Average GPM	Inlet Temperature 62-77° Approximate Usage
180,000 BTU/h	RTGH-RH10DVL	4.3		5.0		5.8		6.9	
199,000 BTU/h	RTGH-RH11DVL	4.8		5.5		6.4		7.7	

USAGE KEY

Faucet Flow rate of 2.0 GPM

Shower Flow rate of 2.5 GPM

Inlet Temperature: The temperature of cold water before it enters your water heater.

GPM: Gallons Per Minute

Approximate Usage: The number of faucets and/or showers this model will serve based on a temperature setting of 120˚F. Flow rates vary depending on temperature of incoming cold water and water heater set temperature.

Models with **DV** are Indoor Direct Vent units. Models with **X** are Outdoor units.
Replace the **N** (Natural Gas) in the model numbers with a **P** for Liquid Propane models.

**Based on simultaneous showers using a 2.5 GPM flow rate & faucets using a 2.0 GPM flow rate, both pre-mixed with cold water line to 105°F. Flow rates vary depending on temperature of incoming cold water and water heater set temperature. Number of showers and faucets vary depending on maximum flow rates of shower heads and faucets. Usage can include other appliances instead of showers and faucets.*

INDOOR DIRECT VENT

OUTDOOR

SAVE TIME

1 PVC Venting Compatible
Vent with 2", 3" and 4" PVC, saving time and money

2 Easy To Service
Access all parts of the heater with just a Phillips-head screwdriver

3 Built-In Condensate Neutralizer
Industry First!
Safely dispose of condensate without extra installation cost and time

4 Half-Inch Gas Line Compatible up to 24 ft.[1]
Saves money and time on installation to an existing system

5 Freeze Protection
Industry Best!
Ceramic heaters on copper pipes protect from 40°F to -30°F, allowing outdoor installation

INSTALL MORE

6 Hot Start Programming
RHEEM EXCLUSIVE
Minimizes cold water bursts by staying in ready-fire state for back-to-back hot water needs

7 Overheat Film Wrap
RHEEM EXCLUSIVE
Safety feature prevents dangerous temperatures allowing industry-best, 1/2" side-to-side clearance to combustibles

8 Water Savings Setting
RHEEM EXCLUSIVE
Can save up to 1,100 gal/year by reducing water flow at tap until set temperature is achieved (optional)

9 Low Flow Activation
Industry Best!
Minimum flow rate of .26 GPM and activation flow rate of .40 GPM ensures hot water in low demand situations

10 Six Stage Modulating Burner
Tight control over burner energy efficiency

11 EcoNet® Enabled
All models from 2010 to present can connect to EcoNet mobile app via Tankless EcoNet Accessory Kit (REWRA630TWH)

[1] *Based on Rheem testing of 1/2" gas line with gas supply of 7" w.c. up to 24'; Installation conditions vary; Consult the Rheem® Use and Care Manual, the Rheem® Gas Piping Facts brochure (TK-GPF-12), the National Fuel Gas Code (NFPA 54, ANSI Z223.1), and any other local gas codes when installing a Rheem Tankless Water Heater.*

Tankless Venting

Complete Your Installation with Rheem® Venting Components and Accessories

Venting for Condensing Tankless RTGH Series

PVC Termination Kits | Allow for an aesthetic and easy installation

Horizontal or Vertical Concentric Termination

Combines a two-pipe vent system to a single, concentric through-the-wall or roof penetration. Designed for two-pipe direct vent, fits PVC or CPVC venting. Installed dimensions: 39"H x 7-1/4"D

- **SP20245** - For 3" PVC Venting

Horizontal Vent Termination

Low profile design for two-pipe direct vent, fits PVC or CPVC venting. Installed dimensions: 11-3/4"W x 8"W x 2-1/2"D

- **SP20286** - For 3" PVC Venting
- **SP20285** - For 2" PVC Venting

Venting for Mid Efficiency Tankless RTG Series

Stainless Steel Vent System | 3" x 5" Concentric Category III Metal Fab

Horizontal Vent Kit

Low profile cone design for concentric direct vent systems. Includes 90˚ elbow, short, low-profile termination and installation screws.

- **RTG20231** - Up to 6" walls
- **RTG20234** - Up to 8" walls

Economy Vent Kit

- **RTG20210** - Up to 10" walls

Vertical Termination Kit

Concentric direct vent systems. Stainless steel and galvanized construction. Includes vertical termination cap, storm collar, 6-12 pitch roof flashing and installation screws. Vent pipe not included.

- **RTG20211** - Vertical Vent Kit

Additional venting and accessories are available. See Catalog for details.

Stainless Steel Metal Fab Venting Components and Accessories

90˚ Elbow
8.1" rise – 8.1" run
- **RTG20151A-1**

45˚ Elbow
8.6" rise – 3" run
- **RTG20151B-1**

Wall Hanger
2-point pivot mounting
- **RTG20151H**

Wall Thimble
17" wide for up to 6" deep walls, with drywall and stucco rings, ideal for new construction
- **RTG20151Z**

6" Vent Length
5.66" overall length
- **RTG20151W**

12" Vent Length
11.66" overall length
- **RTG20151R**

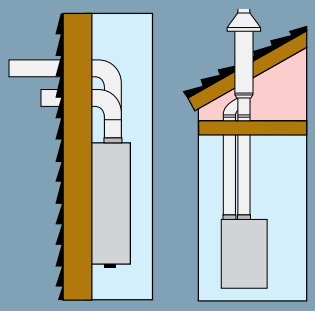
24" Vent Length
23.66" overall length
- **RTG20151C-1**

36" Vent Length
35.66" overall length
- **RTG20151D-1**

VENTING OPTIONS AND INSTALLATIONS

All indoor tankless units must be vented to the outdoors using manufacturer approved venting material.

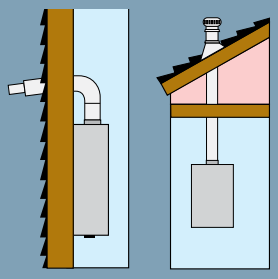
PVC VENT SYSTEM



INDOOR Horizontal vent termination

INDOOR Vertical vent termination

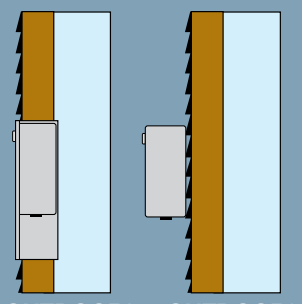
3"/5" CONCENTRIC VENT SYSTEM



INDOOR Horizontal vent termination

INDOOR Vertical vent termination

OUTDOOR



OUTDOOR* Recess box installation

OUTDOOR* installation

Venting details, including clearances, instructions and diagrams can be found in the "Use & Care Manual" of Rheem indoor tankless water heaters.

(ULCS636 Pipe must be used for Canada.)

**Outdoor units do not require venting materials.*

The new degree of comfort®

Rheem *Prestige*® RTGH is a series of High-Efficiency Condensing Tankless Gas Water Heaters designed for continuous hot water

Efficiency

- Up to .93 UEF with stainless steel condensing heat exchanger

Easy Installation and Service

- **NEW! 2" venting connections**
- **NEW! Vent up to 150 ft with 3" PVC and 60 ft with 2" PVC**
- Built-in condensate neutralizer
- 1/2" Gas line compatibility up to 24 ft.[1]
- **Exclusive! Maintenance Notice Setting** – Alerts homeowner, after 500 hours of use, to call for service (optional)
- Self-diagnostic system for easy installation and service
- High-altitude capability – up to 8,400 ft. elevation above sea level[2]
- Digital remote control **now pre-wired!** 10 ft. of thermostat wire included – shows temperature setting and service codes
- Requires 120V power supply

Performance

- **Industry Leading! Low Flow Activation** – Minimum flow rate of .26 GPM and minimum activation flow rate of .40 GPM ensures hot water even in low demand situations
- **Recirculation Pump Kit-Ready** – Providing faster hot water at the tap and savings of up to 12,000 gallons water/year[3]
- **Exclusive! Hot Start Programming** – Minimizes cold water bursts by staying in ready-fire state for back-to-back hot water needs

Technology

- **EcoNet® Enabled** – all Tankless products from 2010 to present can connect to EcoNet mobile app via Tankless EcoNet Accessory Kit (REWRA630TWH)
- For higher demand applications, easily link multiple tankless units to operate as one system:
  - 2 Units: EZ Link cable
  - Up to 6 units: MIC-6 Control Board
  - Up to 20 units: MIC-185 plus MICS-180 manifold control assembly

Environmentally Friendly

- **Low Emissions** – Ultra low NOx burner meets SCAQMD rule 1146.2 requirements
- **Exclusive! Water Savings Setting** – Save up to 1,100 gallons water/year[4] by reducing flow at the tap until set temperature is achieved (optional)

Safety

- **Exclusive! Overheat film wrap** – prevents dangerous temperatures and provides industry best side-to-side clearance of 1/2 inch
- **Industry Best!** Freeze protection to -30°F

Warranty

- 12-Year heat exchanger – residential, 5-year heat exchanger – commercial, 5-year parts and 1-year labor

See Warranty Certificate for complete information

[1] Based on Rheem testing of 1/2" gas line with gas supply of 7" w.c. up to 24'; Installation conditions vary; Consult the Rheem® Use and Care Manual, the Rheem® Gas Piping Facts brochure (TK-GPF-12), the National Fuel Gas Code (NFPA 54, ANSI Z223.1), and any other local gas codes when installing a Rheem Tankless Water Heater.
[2] Contact customer service for exact altitude rating for each model.
[3] Pump kit designed for single unit applications only.
[4] Savings based on DOE test procedures.

RTGH-95DVLN-2 Indoor Direct Vent
RTGH-95XLN-2 Outdoor

11,000-199,900 BTU/h
Natural and LP Gas

Swap **N** for **P** in model number for LP model

Maximum Water Temperature is 140° F (for applications requiring up to 185° F, see Rheem Commercial Tankless options)

LEED Points = 2

Rheem Tankless Water Heater with EcoNet® WiFi Included

RTGH-95DVELN-2
Indoor Direct Vent with EcoNet®
11,000-199,900 BTU/h Only
(Outdoor model also available)

Shares all efficiency, performance, technology, warranty and safety values as standard models, with added WiFi capability in the box.

Smart Home Features

- Water leak detection alert and system shut off (indoor models only) – may qualify for insurance discounts
- Mobile alerts for notifications/maintenance reminders
- Mobile gas and water usage reports
- Integration with smart home systems

Product Includes

- Factory-installed translator
- Leak detection cable (for indoor models)
- Wi-Fi Module, connection cable and power cord

App available free in App Store and Google Play for Android

ANDROID APP ON Google play | Available on the App Store

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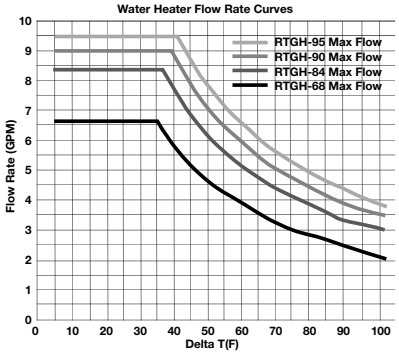
Rheem *Prestige*® Specifications

DESCRIPTION				FEATURES					ROUGHING IN DIMENSIONS (SHOWN IN INCHES)							ENERGY INFO.
MODEL NUMBER	GAS INPUT BTU/H	TYPE	NUMBER OF BATHROOMS*	TEMP. RANGE	MIN. FLOW/ ACTIVATION GPM	GPM @ 67° RISE MAX.	GPM @45° RISE MAX.	MAX. GPM	CONNECTION WATER	CONNECTION GAS	HEIGHT	WIDTH	DEPTH	VENT DIAM.	SHIP WEIGHT (LBS.)	UNIFORM ENERGY FACTOR (UEF)
RTGH-95DVLN-2	11,000-199,900	Indoor Direct Vent	4	85° to 140° F	0.26/0.40	5.7	8.5	9.5	3/4	3/4	27-1/2	18-1/2	9-3/4	2" or 3" PVC 2-Pipe	82	0.93
RTGH-95DVELN-2 (EcoNet® Included)	11,000-199,900	Indoor Direct Vent	4	85° to 140° F	0.26/0.40	5.7	8.5	9.5	3/4	3/4	27-1/2	18-1/2	9-3/4	2" or 3" PVC 2-Pipe	82	0.93
RTGH-95XLN-2	11,000-199,900	Outdoor	4	85° to 140° F	0.26/0.40	5.6	8.5	9.5	3/4	3/4	27-1/2	18-1/2	9-3/4	N/A	82	0.93
RTGH-95XELN-2 (EcoNet® Included)	11,000-199,900	Outdoor	4	85° to 140° F	0.26/0.40	5.6	8.5	9.5	3/4	3/4	27-1/2	18-1/2	9-3/4	N/A	82	0.93
RTGH-90DVLN-2	11,000-180,000	Indoor Direct Vent	3 - 4	85° to 140° F	0.26/0.40	5.2	7.7	9.0	3/4	3/4	27-1/2	18-1/2	9-3/4	2" or 3" PVC 2-Pipe	82	0.93
RTGH-90XLN-2	11,000-180,000	Outdoor	3 - 4	85° to 140° F	0.26/0.40	5.2	7.7	9.0	3/4	3/4	27-1/2	18-1/2	9-3/4	N/A	82	0.93
RTGH-84DVLN-2	11,000-157,000	Indoor Direct Vent	3	85° to 140° F	0.26/0.40	4.6	6.7	8.4	3/4	3/4	27-1/2	18-1/2	9-3/4	2" or 3" PVC 2-Pipe	82	0.93
RTGH-84XLN-2	11,000-157,000	Outdoor	3	85° to 140° F	0.26/0.40	4.5	6.7	8.4	3/4	3/4	27-1/2	18-1/2	9-3/4	N/A	82	0.93
RTGH-68DVLN-2	11,000-120,000	Indoor Direct Vent	2.5	85° to 140° F	0.26/0.40	3.4	5.1	6.8	3/4	3/4	27-1/2	18-1/2	9-3/4	2" or 3" PVC 2-Pipe	82	0.91
RTGH-68XLN-2	11,000-120,000	Outdoor	2.5	85° to 140° F	0.26/0.40	3.4	5.1	6.8	3/4	3/4	27-1/2	18-1/2	9-3/4	N/A	82	0.91

*Based on simultaneous showers using 2.5 GPM flow rate pre-mixed with cold water line. Flow rates vary depending on temperature of incoming cold water and water heater set temperature. Refer to flow rate curves for accurate sizing.
Uniform Energy Factor and Energy Factor based on Department of Energy (D.O.E.) requirements.
All models are available in Natural Gas and Propane (LP). For Propane replace the N with P when ordering.
SCAQMD 1146.2 compliant.
Factory set maximum temperature is 120° F. See Use and Care Manual for setting.
Consult factory for information on sizing the application.
Add a "C" to the model number when ordering Canadian models. Outdoor models are only for seasonal use in Canada. Please contact Rheem Canada Ltd. for details.
Vent Termination Kits are required for Direct Vent models. Contact your distributor for details.
Proper gas pressure must be ensured to supply tankless gas water heaters – up to 199,900 BTU/h for RTGH-95 models, up to 180,000 BTU/h for RTGH-90 models, up to 157,000 BTU/h for RTGH-84 models, up to 120,000 BTU/h for RTGH-68 models. (Consult your gas supplier)

	Temperature Rise (° F)								
Model Number	35°	45°	50°	60°	67°	70°	80°	90°	100°
RTGH-95 Water Flow (GPM)	9.5	8.5	7.7	6.4	5.7	5.5	4.8	4.3	3.8
RTGH-90 Water Flow (GPM)	9.0	7.7	6.9	5.8	5.2	4.9	4.3	3.8	3.5
RTGH-84 Water Flow (GPM)	8.4	6.7	6.0	5.0	4.6	4.3	3.8	3.3	3.0
RTGH-68 Water Flow (GPM)	6.6	5.1	4.6	3.8	3.4	3.3	2.9	2.6	2.3

Above estimates are for sizing purposes only.



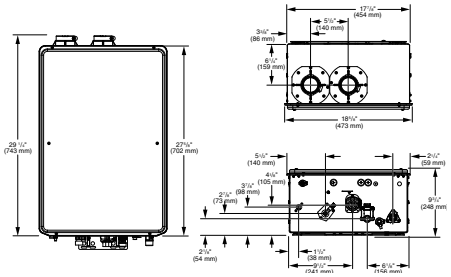
Maximum Vent Length (intake/outlet):

NUMBER OF 90° ELBOWS	MAXIMUM LENGTH OF 2" STRAIGHT PIPE*	MAXIMUM LENGTH OF 3" STRAIGHT PIPE
0	60 ft.	150.0 ft.
1	57 ft.	148.5 ft.
2	54 ft.	147.0 ft.
3	51 ft.	145.5 ft.
4	48 ft.	144.0 ft.
5	45 ft.	142.5 ft.
6	42 ft.	141.0 ft.

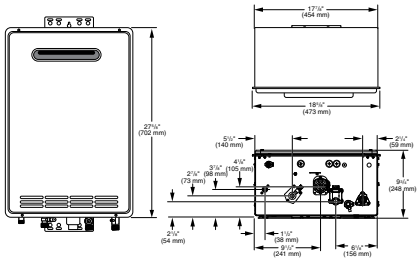
(ULC-S636 pipe must be used for Canada.)

**Dip switch setting change required to achieve 60 ft. maximum vent length on 2" straight pipe. Max length for 2" straight pipe is 22 ft. with factory default settings.*

Indoor Direct Vent



Outdoor



Parts and Accessories

Venting & terminations – 2" or 3" PVC, recess boxes, pipe covers, extra remote controls, EZ-Link™ cable, manifolds and cables, service valve kits, service parts, flush kits, recirculation pump kits and AllClear™ water treatment system. For more information on Tankless parts and accessories, see the Parts and Accessories Catalog or call 866-720-2076.

In keeping with its policy of continuous progress and product improvement, Rheem reserves the right to make changes without notice.

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