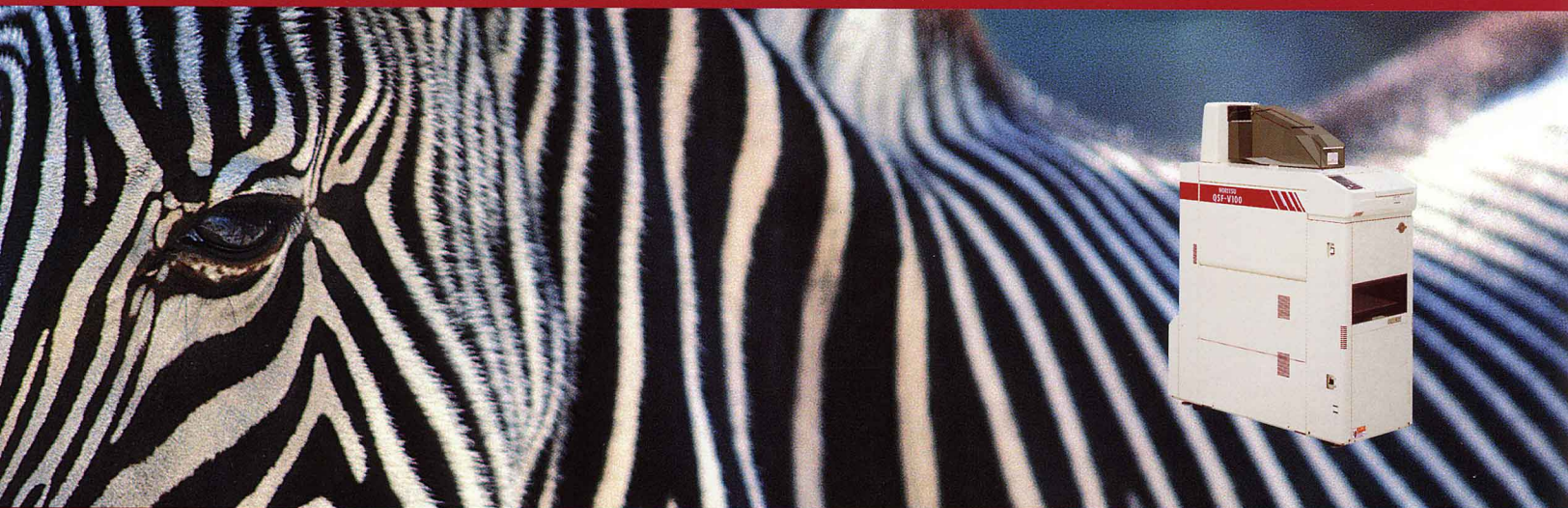
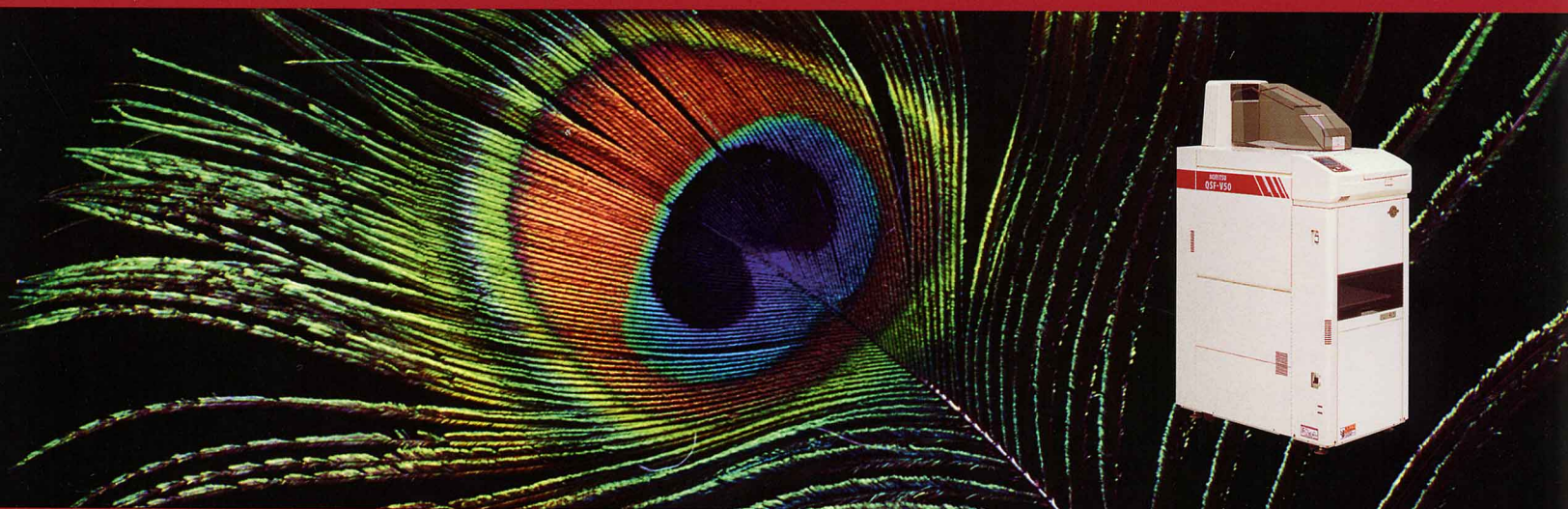


# V-SERIES

## V-SERIES FILM PROCESSORS



**NORITSU**



# V-SERIES SM SYSTEMS

## V-Series SM Systems.

The V-Series SM Systems combine the advanced operation characteristics of standard V-Series processors with the Kodak SM chemical process.

The SM system uses Low Volume Thin Tank (LVTT) technology and pre-measured chemicals to simplify equipment operation, save time, and cut processing costs.

LVTT tank racks pass film through thin, low-volume channels. This reduction in tank volume, and the resulting high-impingement agitation, produces dramatically enhanced chemical efficiency and virtually eliminates process changes between peak business times and slower periods.

To your customers, LVTT tanks mean the confidence of knowing they can count on your business for consistent quality color prints. To you, the tanks mean a reduction in chemical, water use and effluent levels—plus, easier chemical maintenance with low volume processing, and fewer tank cleanings thanks to a tank turnover that's up to 51% faster than with ordinary tanks.

The new SM chemical process reduces the steps necessary to add and mix chemicals to simply loading pre-measured chemical boxes into the machine. Once loaded, the chemicals are mixed automatically inside the machine; so there's no employee mixing, no mess, and no mistakes.

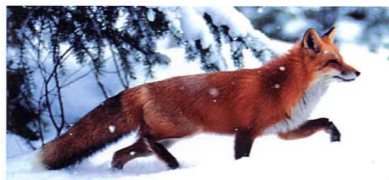
SM chemicals are concentrates packaged in containers with patented nozzles that plug directly into equipment tanks. These revolutionary processing units create a machine-chemical interface that eliminates manual chemical mixing by injecting the correct amount of chemical concentrates into the machine. The need for operators to pour and mix chemicals is eliminated, as is the unpleasant smell and possibility of spills.

Internal high precision pumps are used to make sure the proper amounts are released, so the possibility of operator error is removed and equipment down-time is minimized.

The improved chemical reaction created by SM technology means quicker film processing. V-Series SM film processors deliver the first roll faster than ordinary systems. A significant productivity advantage.

SM technology is foolproof. Each box fits only in its proper place and packaging is a different color, so operators find it easy to distinguish between packages. Plus, slots in the packages match projections on the trays, so only the proper package can mate with the proper location.

And thanks to the reduced replenishment rates of the SM System, effluent volumes, disposal costs and energy expenses drop significantly. Your business can start right away to reap the cost, productivity, and quality benefits of SM photofinishing equipment. Call Noritsu today to learn more.



Self-contained packages simply snap in place, eliminating downtime and offering substantial operating savings.

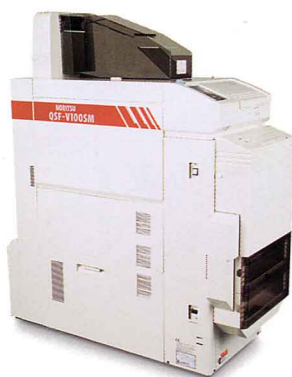
QSF-V30SM



QSF-V50SM



QSF-V100SM



QSF-V30



QSF-V50



QSF-V100



# V-SERIES STANDARD SYSTEMS

## V-Series Systems.

In any business, productivity means profits. In the photofinishing business, Noritsu means productivity.

Using advanced design features and state-of-the-art technology, Noritsu V-Series film processors significantly increase productivity and make film processing quick and easy to perform.

V-Series processors offer a large graphic display, dual lane processing and automatic film size detection, so operation is a snap even for new operators. And the ability to process 110 through IX240 color negative film, lets you draw from the widest customer base possible.

To make sure you get a film processor that meets your exact needs, V-series processors are available in three models that differ in capacity, size, and loading capabilities.

The V30 processes about 26 rolls of 24-exposure 135 film per hour; the V50 processes up to 50 rolls per hour; and, for higher capacity needs, the V100 handles an impressive 92 rolls per hour.

All the V-Series processors integrate seamlessly with Noritsu printer processors to give you a complete photofinishing system.



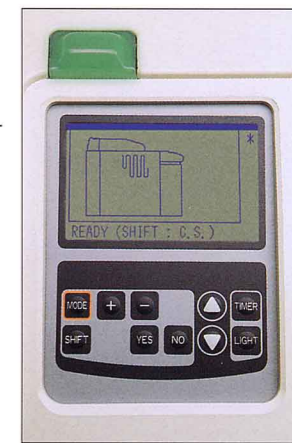
V-Series Film Processors handle many film formats including 110, 126, 135, 120 and IX240.

Another factor impacting productivity is equipment reliability. If the film processor fails, you're losing money. That's why it pays to select a system from Noritsu: the company with a proven record of reliability, long-life, and trouble-free operation.

We back our reputation for reliability with the strongest customer support in the industry, training your employees in the operation and maintenance of Noritsu equipment at a Noritsu regional training office.

Plus, you have the advantages of a fully stocked domestic parts department, field service handled by four regional offices, and a worldwide technical service network. And information or assistance is available seven days a week through the Noritsu telephone hotline.

Call Noritsu today. We'll discuss your film processing needs in detail and show you how you can boost profits with the V-Series film processors.



A large LCD display leads you through routine operations.



Film loading is quick and easy with V-Series Film Processors.





# V-SERIES

## V-SERIES PUSH SYSTEMS

OSF-V30P



OSF-V50P



### V-Series Push System.

Like all Noritsu film processors, the V-Series Push System processors are easy to load, efficient to operate, and accommodate all popular sizes of color negative film, including IX240. However, Push System processors incorporate design advancements that move film processor performance to a new level.

Push System processors allow developing times to be set to either a 3-step variable mode or the standard process. Automated electronics detect film size as the film enters the processor, so two different film sizes can be processed simultaneously. Advanced electronics manage equipment functions and automatically turn dryer power on and off when necessary. A program timer sets solution temperatures at proper levels before the start of operations each day.



# V-SERIES

## V-SERIES OPTIONS

OPTIONS



### Automatic Loading Options for V-50 & V-100.

To further increase efficiency, both Standard and SM, V-50 and V-100 film processors may be ordered with automatic film loaders to continuously feed 135 film cartridges or IX240 film cassettes.

This labor-saving feature continuously feeds film through the processor without the need for additional manual intervention, so your operator can package prints, perform other production tasks, or assist customers while the film is being processed.





# V-SERIES SPECIFICATIONS

## PROCESSING CAPACITY: ROLLS PER HOUR\*

FILM SIZE	V-30SM	V-30	V-30P	V-50SM	V-50	V-50P	V-100SM	V-100
135 (12 Exp.)	38	38	38	74	74	74	132	136
135 (24 Exp.)	26	26	26	50	50	50	92 (90)	92 (90)
135 (36 Exp.)	20	20	20	38	38	38	68	70
IX240 (25 Exp.)	26	26	26	50 (46)	50 (46)	50	94 (84)	94 (84)
110 (12 Exp.)	50	50	50	94	94	94	174	174
110 (24 Exp.)	34	34	34	66	66	66	124	124
120	32	32	32	62	62	62	116	116
220	18	18	18	36	36	36	66	66
126 (12 Exp.)	48	48	48	94	94	94	170	170
126 (24 Exp.)	32	32	32	62	62	62	114	114

(Capacity in parentheses shows when an automatic film loader is attached.) \*Processing capacity figures are calculations based on the design of the machine. Actual processing capacity has yet to be measured. Specifications subject to change without notice.



## POWER REQUIREMENTS: SINGLE PHASE TWO WIRES

INPUT (V)	AMPS (A)					
	V-30SM/V-30	V-30P	V-50SM/V-50	V-50P	V-100SM	V-100
200V	2.8 kVA (14A)	2.8 kVA (14A)	3.7 kVA (18A)	3.6 kVA (18A)	5.4 kVA (27A)	6.1 kVA (30A)
208V	3.0 kVA (15A)	2.9 kVA (15A)	3.9 kVA (19A)	3.8 kVA (19A)	5.8 kVA (28A)	6.5 kVA (31A)
220V	3.0 kVA (14A)	2.9 kVA (14A)	3.9 kVA (18A)	3.8 kVA (18A)	5.7 kVA (26A)	6.5 kVA (29A)
230V	3.2 kVA (14A)	3.1 kVA (14A)	4.2 kVA (18A)	4.1 kVA (18A)	6.1 kVA (27A)	7.0 kVA (30A)
240V	3.4 kVA (14A)	3.3 kVA (14A)	4.5 kVA (19A)	4.4 kVA (19A)	6.6 kVA (28A)	7.5 kVA (31A)

## GENERAL SPECIFICATIONS

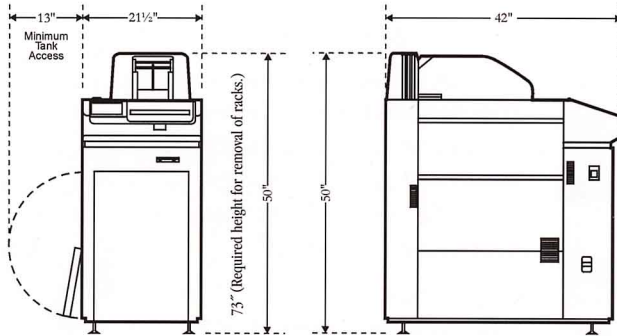
SYSTEM	PROCESSING SPEED	DRY TO DRY TIME	DIMENSIONS	WEIGHT (approx)
V-30SM	12" per min.	10:44	22" (W) x 42" (L) x 50" (H)	430 lbs. (processor) + 62 lbs. (solutions) = 492 lbs. (total)
V-30	12" per min.	10:44	22" (W) x 42" (L) x 50" (H)	363 lbs. (processor) + 183 lbs. (solutions) = 546 lbs. (total)
V-30P	9.4"-12.3" per min.	normal: 10:38; push 1: 12:16; push 2: 13:54	22" (W) x 42" (L) x 50" (H)	363 lbs. (processor) + 183 lbs. (solutions) = 546 lbs. (total)
V-50SM	23" per min.	9:57	22" (W) x 42" (L) x 65" (H) no auto loader 47" (L) with auto film loader	531 lbs. (processor) + 99 lbs. (solutions) = 630 lbs. (total)
V-50	23" per min.	9:57	22" (W) x 42" (L) x 65" (H) no auto loader 47" (L) with auto film loader	471 lbs. (processor) + 198 lbs. (solutions) = 669 lbs. (total)
V-50P	18"-23.5" per min.	normal: 9:52; push 1: 11:08; push 2: 12:54	22" (W) x 42" (L) x 65" (H)	471 lbs. (processor) + 198 lbs. (solutions) = 669 lbs. (total)
V-100SM	43.5" per min.	10:13	23" (W) x 49" (L) x 65" (H) no auto loader 54" (L) with auto film loader	665 lbs. (processor) + 123 lbs. (solutions) = 788 lbs. (total)
V-100	43.5" per min.	9:14	23" (W) x 49" (L) x 65" (H) no auto loader 54" (L) with auto film loader	559 lbs. (processor) + 357 lbs. (solutions) = 916 lbs. (total)

\*Specifications subject to change without notice. The capacity of the machine varies with the process chemicals used, length of the film, etc. QSF is a trademark of Noritsu.

CAT#66MPB 1/00 10M

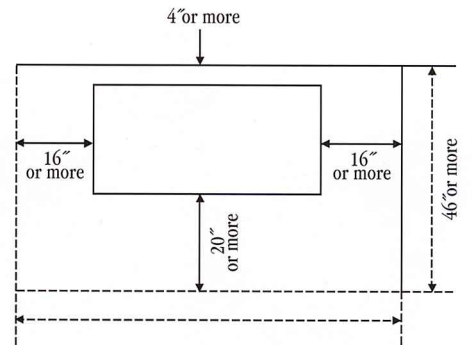
# V-SERIES SM SYSTEMS DIAGRAMS

**QSF-V30/V30SM**



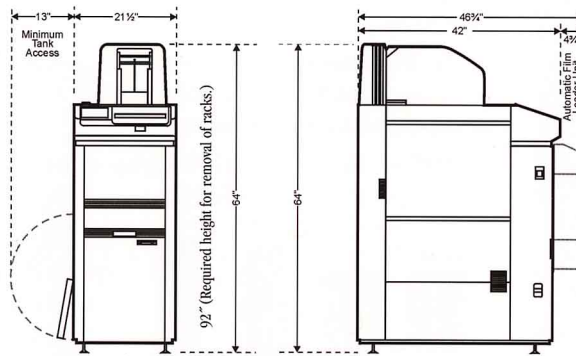
**FRONT**

**SIDE**



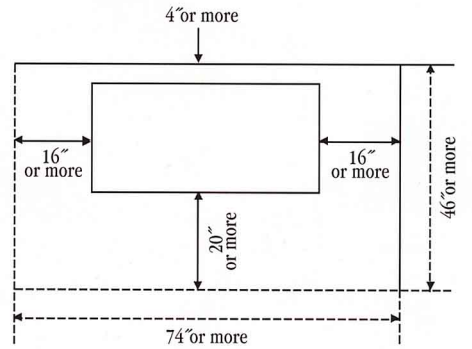
**SPACE REQUIRED FOR INSTALLATION: 74" x 46"**

**QSF-V50/V50SM**



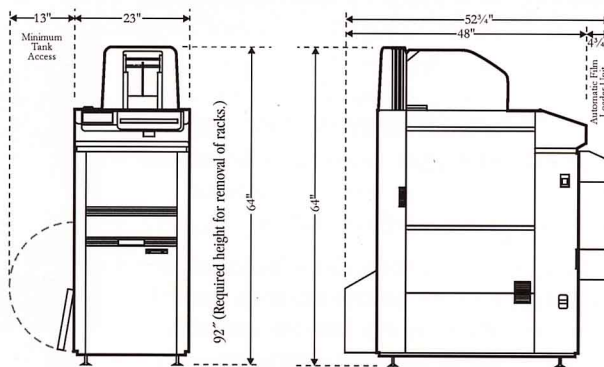
**FRONT**

**SIDE**



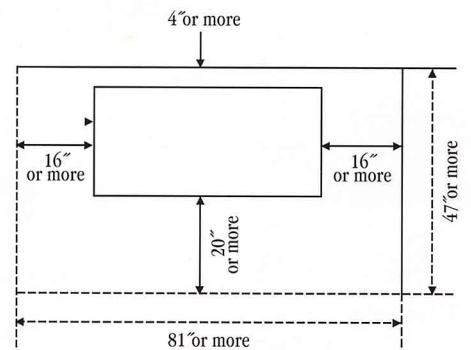
**SPACE REQUIRED FOR INSTALLATION: 74" x 46"**

**QSF-V100/V100SM**



**FRONT**

**SIDE**

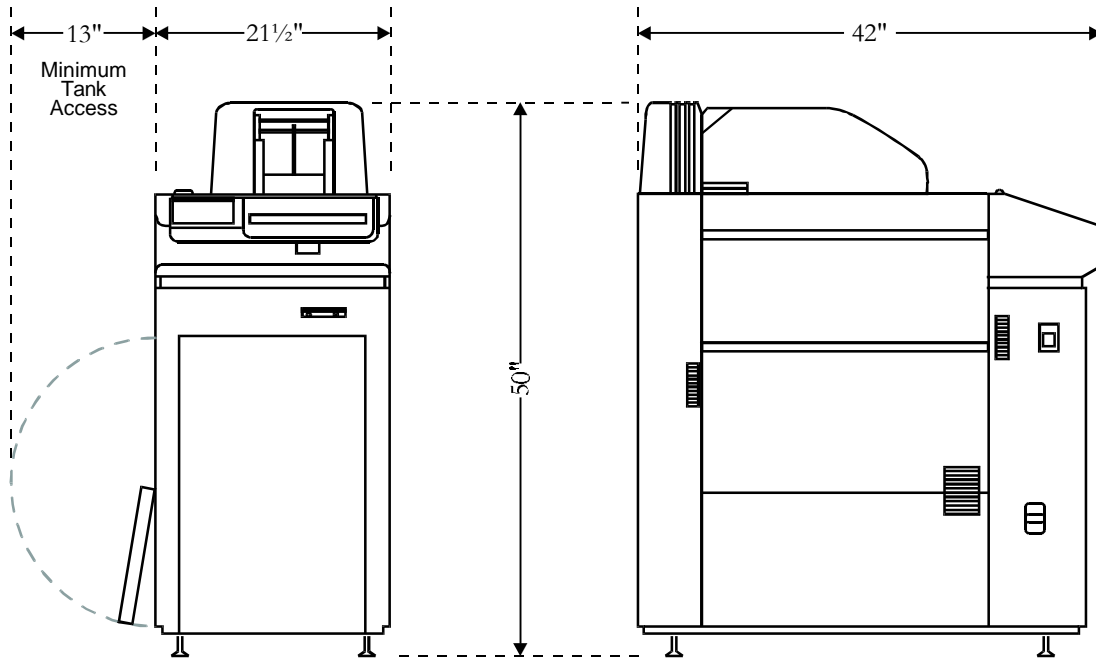


**SPACE REQUIRED FOR INSTALLATION: 81" x 47"**



# QSF-V30 FILM PROCESSOR

## INSTALLATION SPECIFICATIONS



FRONT

LEFT SIDE

- Electrical .....208 VAC Single phase 2.8kVA (15A)
- .....220 VAC Single phase 2.9kVA (14A)
- .....230 VAC Single phase 3.1kVA (14A)
- .....240 VAC Single phase 3.3kVA (14A)

**Note:** 2 wire feed plus separate ground wire.

Sensible heat loss .....6,390 @ 208 VAC ~ 6,890 @ 240 VAC B.t.u./hour

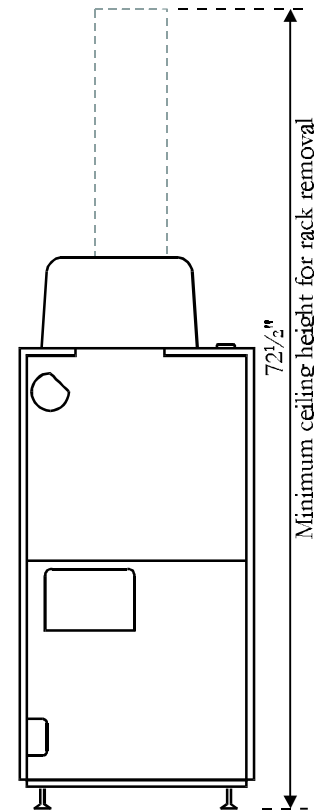
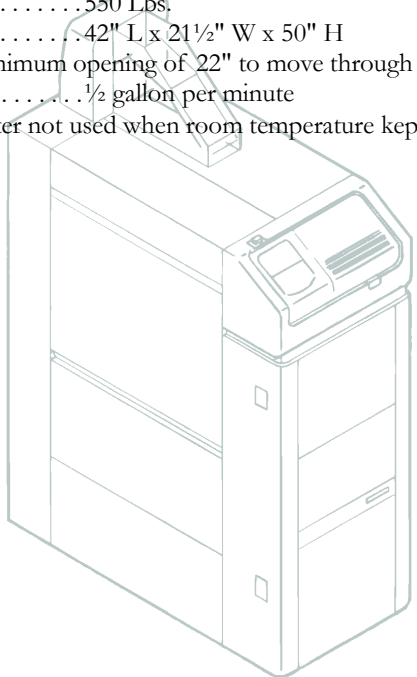
Operating weight .....550 Lbs.

External dimensions .....42" L x 21 1/2" W x 50" H

**Note:** Needs a minimum opening of 22" to move through a door or passage

Cooling water .....1/2 gallon per minute

**Note:** Cooling water not used when room temperature kept at or below 85° F



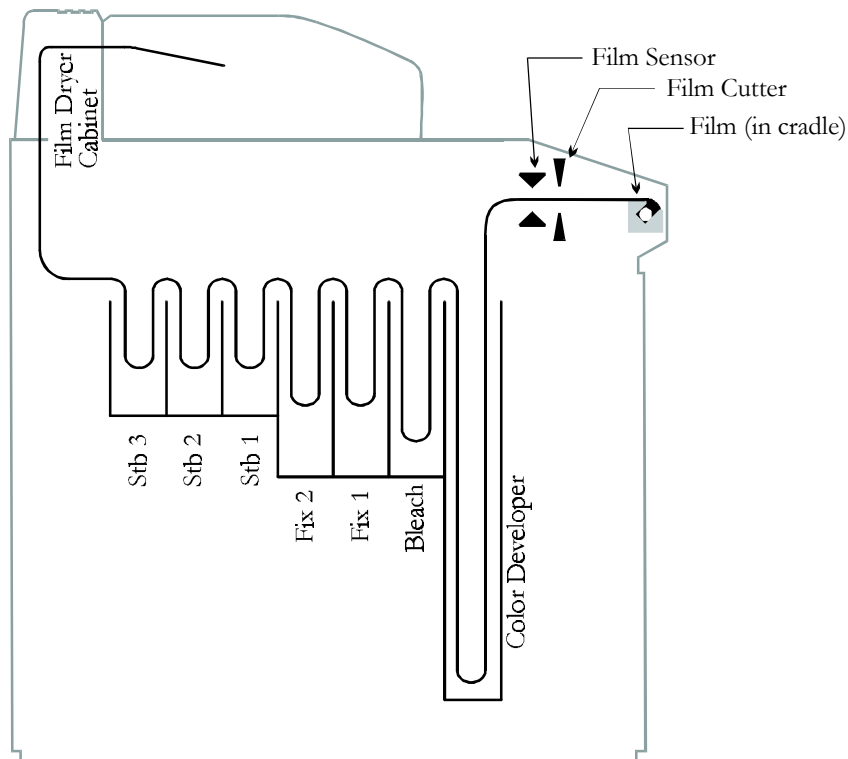
BACK

# QSF-V30 FILM PROCESSOR

## FILM CAPACITY PER HOUR (C-41 RA4NP)

Film size	Rolls
110-24 .....	34
126-24 .....	32
135-24 .....	26
120 .....	32
220 .....	18
Advanced Photo System Film .....	26

## FILM PATH



## PROCESS SPECIFICATIONS

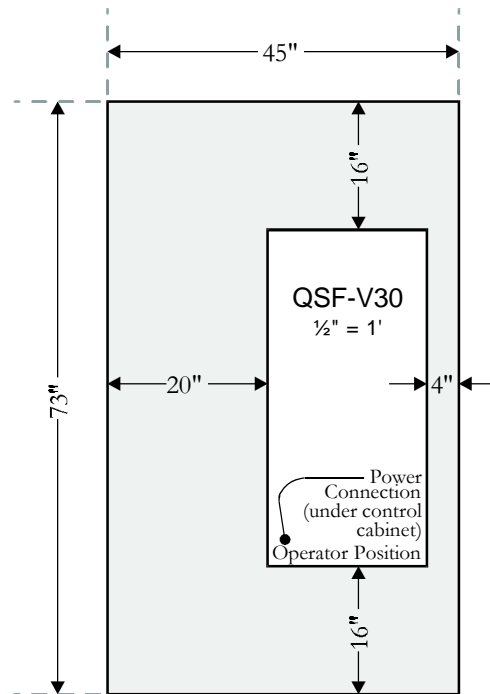
C-41RANP	CD	BL	FIX	STB	DRY
Processing tank capacities (liters)	7.6	3.1	5.4 (2 tanks)	5.7 (3 tanks)	122
Operating temperature (Fahrenheit)	100 ±0.25	95~105	95~105	95~105	122 ~ 158
Time per step (seconds)	195	69	136	122	122
Replenisher tank capacities (liters)	12	12	12	12	
Water replenisher tank (liters)	5.0				
Waste tank capacities (liters)	3.3		8.8		

# QSF-V30 FILM PROCESSOR

Cut out and use with a scaled drawing ( $\frac{1}{2}'' = 1'$ ) of your floor plan to determine the best location for the equipment.

Note:

Dimensions and shaded area indicates *minimum* clearance to walls, other equipment, etc. Additional clearance is suggested on all sides (except side to the left of the operator's position) and may be required by local codes.



Note: Cooling water not used when room temperature kept at or below 85°F.

Specifications subject to change

## NORITSU AMERICA CORPORATION

**Corporate Office:** (714) 521-9040  
6900 Noritsu Ave., Buena Park, CA 90622-5039

**Western Regional Office:** (714) 521-9040  
6950 Noritsu Ave., Buena Park, CA 90622-5039

**Eastern Regional Office:** (973) 808-9898  
336 Route 46 East, Fairfield, NJ 07004-2429

**Midwest Regional Office:** (847) 888-8000  
755 Tollgate Road, Elgin, IL 60123-9301

**Southern Regional Office:** (214) 631-2400  
2989 North Stemmons Fwy., Dallas, TX 75247-6193

**U.S. Government Sales Office:** (703) 821-0007  
1420 Spring Hill Rd., Suite 600, McLean, VA 22102-3006

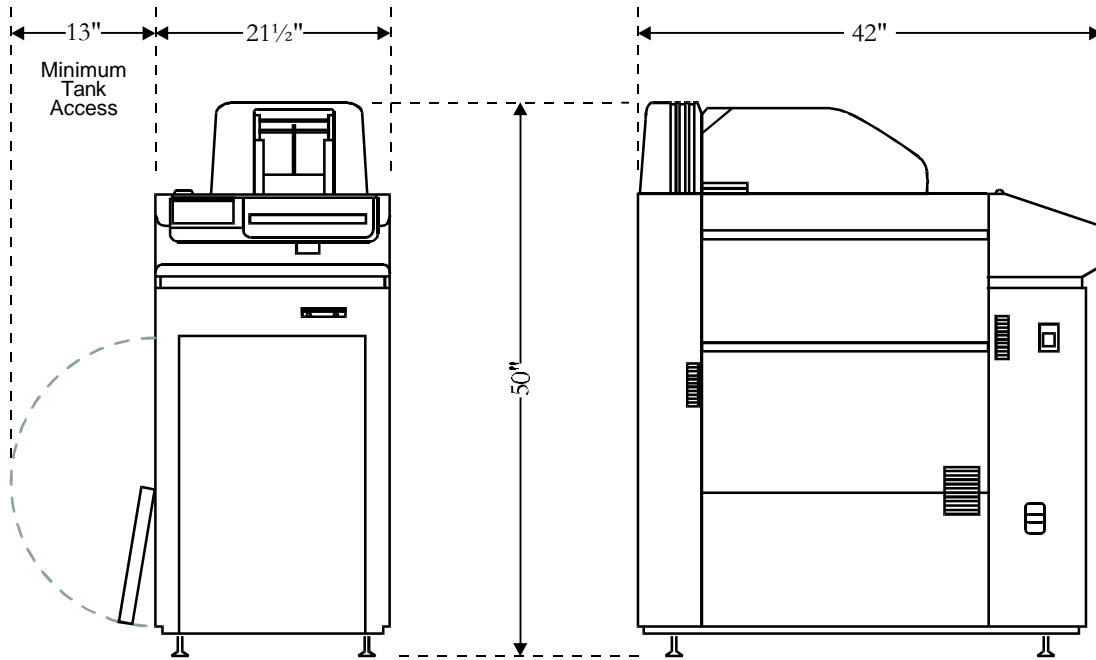
**Noritsu Canada Ltd:** (905) 567-8982  
2680 Argenta Road, Mississauga, Ontario L5N-5V4

rev. 1.11/02/98



# QSF-V30SM FILM PROCESSOR

## INSTALLATION SPECIFICATIONS



FRONT

LEFT SIDE

- Electrical .....208 VAC Single phase 3.0kVA (15A)
- .....220 VAC Single phase 3.0kVA (14A)
- .....230 VAC Single phase 3.2kVA (14A)
- .....240 VAC Single phase 3.4kVA (14A)

**Note:** 2 wire feed plus separate ground wire.

Sensible heat loss .....6,390 @ 208 VAC ~ 6,890 @ 240 VAC B.t.u./hour

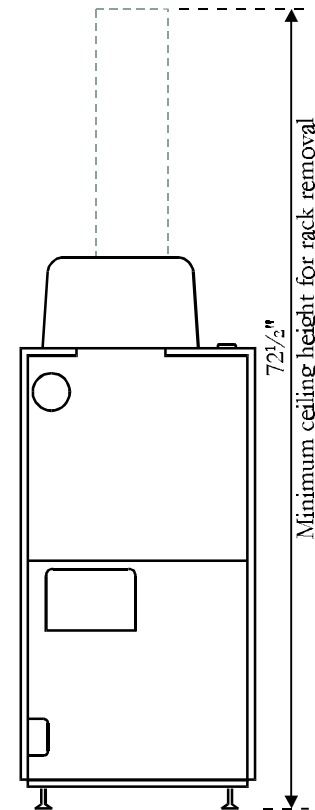
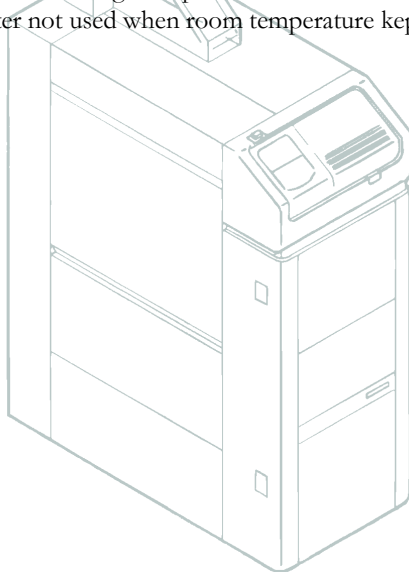
Operating weight .....495 Lbs.

External dimensions .....42" L x 21 1/2" W x 50" H

**Note:** Needs a minimum opening of 22" to move through a door or passage

Cooling water .....1/2 gallon per minute

**Note:** Cooling water not used when room temperature kept at or below 85° F



BACK

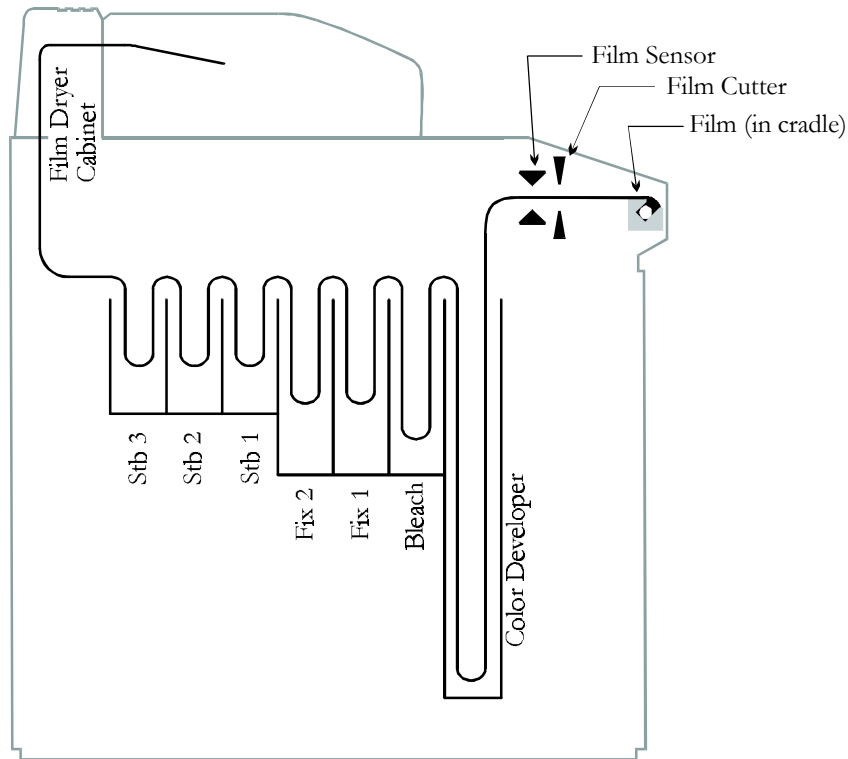


# QSF-V30SM FILM PROCESSOR

## FILM CAPACITY PER HOUR (C-41SM)

Film size	Rolls
110-24 .....	34
126-24 .....	32
135-24 .....	26
120 .....	32
220 .....	18
IX240-25 .....	26

## FILM PATH



## PROCESS SPECIFICATIONS

C-41SM	CD	BL	FIX	STB	DRY
Processing tank capacities (liters)	4.1	2.2	3.5 (2 tanks)	4.3 (3 tanks)	122
Operating temperature (Fahrenheit)	100 ±0.25	95~105	95~105	95~105	122 ~ 158
Time per step (seconds)	195	69	136	122	122
Water replenisher tank (liters)	5.0				
Waste tank capacities (liters)	2.4	0.9	4.3	4.5	

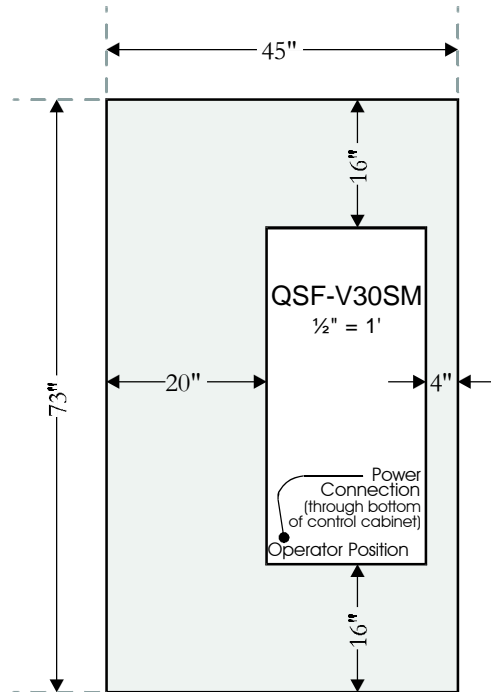


# QSF-V30SM FILM PROCESSOR

Cut out and use with a scaled drawing ( $\frac{1}{2}'' = 1'$ ) of your floor plan to determine the best location for the equipment.

**Note:**

Dimensions and shaded area indicates *minimum* clearance to walls, other equipment, etc. Additional clearance is suggested on all sides (except side to the left of the operator's position) and may be required by local codes.



**Note:** Cooling water not used when room temperature kept at or below 85°F.

Specifications subject to change

## NORITSU AMERICA CORPORATION

**Corporate Office:** (714) 521-9040  
6900 Noritsu Ave., Buena Park, CA 90622-5039

**Western Regional Office:** (714) 521-9040  
6950 Noritsu Ave., Buena Park, CA 90622-5039

**Eastern Regional Office:** (201) 808-9898  
336 Route 46 East, Fairfield, NJ 07004-2429

**Midwest Regional Office:** (847) 888-8000  
755 Tollgate Road, Elgin, IL 60123-9301

**Southern Regional Office:** (214) 631-2400  
2989 North Stemmons Fwy., Dallas, TX 75247-6193

**U.S. Government Sales Office:** (703) 821-0007  
1420 Spring Hill Rd., Suite 600, McLean, VA 22102-3006

**Noritsu Canada Ltd:** (905) 567-8982  
2680 Argenta Road, Mississauga, Ontario L5N-5V4

©1997 Noritsu America Corporation  
rev. 1.10/04/96