

A.2.3 ( )

1)

$$Q = \frac{V \times 60 \times \Delta t \times Sp}{L}$$

- Q : kg/h
- V : 가 m<sup>3</sup>/min
- t : 가
- Sp : 0.32 kcal/m<sup>3</sup>
- L : kcal/kg

) 18 82 가 110m<sup>3</sup>/min ,  
7.0kg/cm<sup>2</sup> ?

$$Q = \frac{110\text{m}^3/\text{min} \times 60 \times (82 - 18) \times 0.32\text{kcal}/\text{m}^3}{489\text{kcal}/\text{kg}} = 276\text{kg}/\text{h}$$

2)

$$Q = \frac{W \times Sp \times \Delta t}{L \times h}$$

- W : kg
- h : h
- Sp : kcal/kg°C
- L : kcal/kg

) 2272 10 60 가 2  
7.0kg/cm<sup>2</sup> ?

$$Q = \frac{2272\text{kg} \times 1 \times (60 - 10)}{489\text{kcal}/\text{kg} \times 2\text{hr}} = 116\text{kg}/\text{h}$$

3) 가

$$Q = \frac{E \times I}{L}$$

- E : kcal/h.m
- ( )
- I : m
- L : kcal/kg

( ) 가 가 가

|  |   |      |      |      |      |      |      |     |      |      |
|--|---|------|------|------|------|------|------|-----|------|------|
|  | 1 | 2    | 3    | 4    | 5    | 6    | 7    | 8   | 9    | 10   |
|  | 1 | 0.96 | 0.91 | 0.86 | 0.82 | 0.78 | 0.74 | 0.7 | 0.67 | 0.63 |

|  |      |      |      |        |        |      |        |      |      |    |
|--|------|------|------|--------|--------|------|--------|------|------|----|
|  | 1/2" | 3/4" | 1"   | 1 1/4" | 1 1/2" | 2"   | 2 1/2" | 3"   | 4"   | 6" |
|  | 0.76 | 0.8  | 0.82 | 0.84   | 0.86   | 0.88 | 0.91   | 0.93 | 0.95 | 1  |

- 가

|       |      |        |      | 가   |
|-------|------|--------|------|-----|
| m/min | km/h | ft/min | mph  |     |
|       |      |        |      | 1.0 |
| 91.4  | 5.5  | 300    | 3.4  | 1.4 |
| 182.9 | 11.0 | 600    | 6.8  | 2.2 |
| 365.8 | 21.9 | 1200   | 13.6 | 3.2 |
| 548.6 | 32.8 | 1800   | 20.4 | 4.0 |
| 914.4 | 54.7 | 3000   | 34.0 | 5.2 |

4)

$$\begin{aligned}
 &= \quad \quad \quad \times \\
 (\text{kg/h}) &= (\text{m}^2) \times 2.44 \\
 (\text{kg/h}) &= (\text{m}^2) \times 8.3
 \end{aligned}$$

( ) 가 64~73m/min .

$$Q = \frac{1.5}{L} \times \{(Ww - Wd) \times 610 + 0.3 Wd(T - t)\}$$

Q : kg/h

Ww : kg/h

Wd : kg/h

T :

t :

L : kcal/kg

1.5 :

610 : ( + )