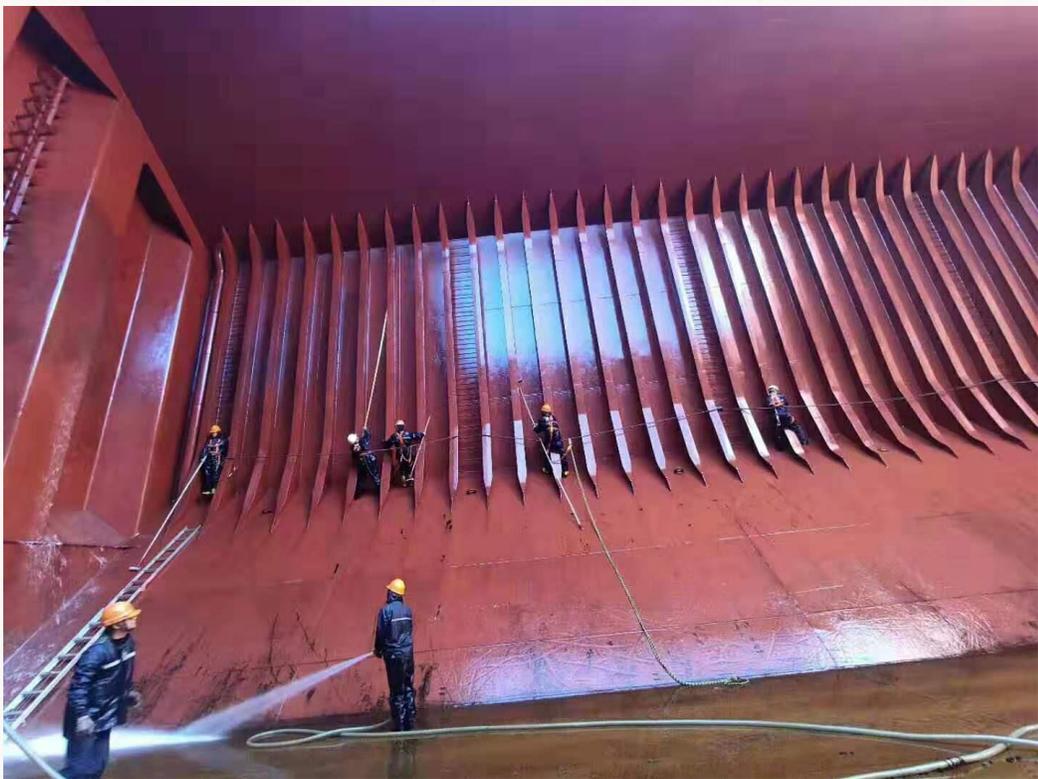




杂货安全装运

## 一、货舱准备

清洁、干燥、无异味、无虫害、无渗漏、舱内设备完好



## 二、装卸过程中的监管



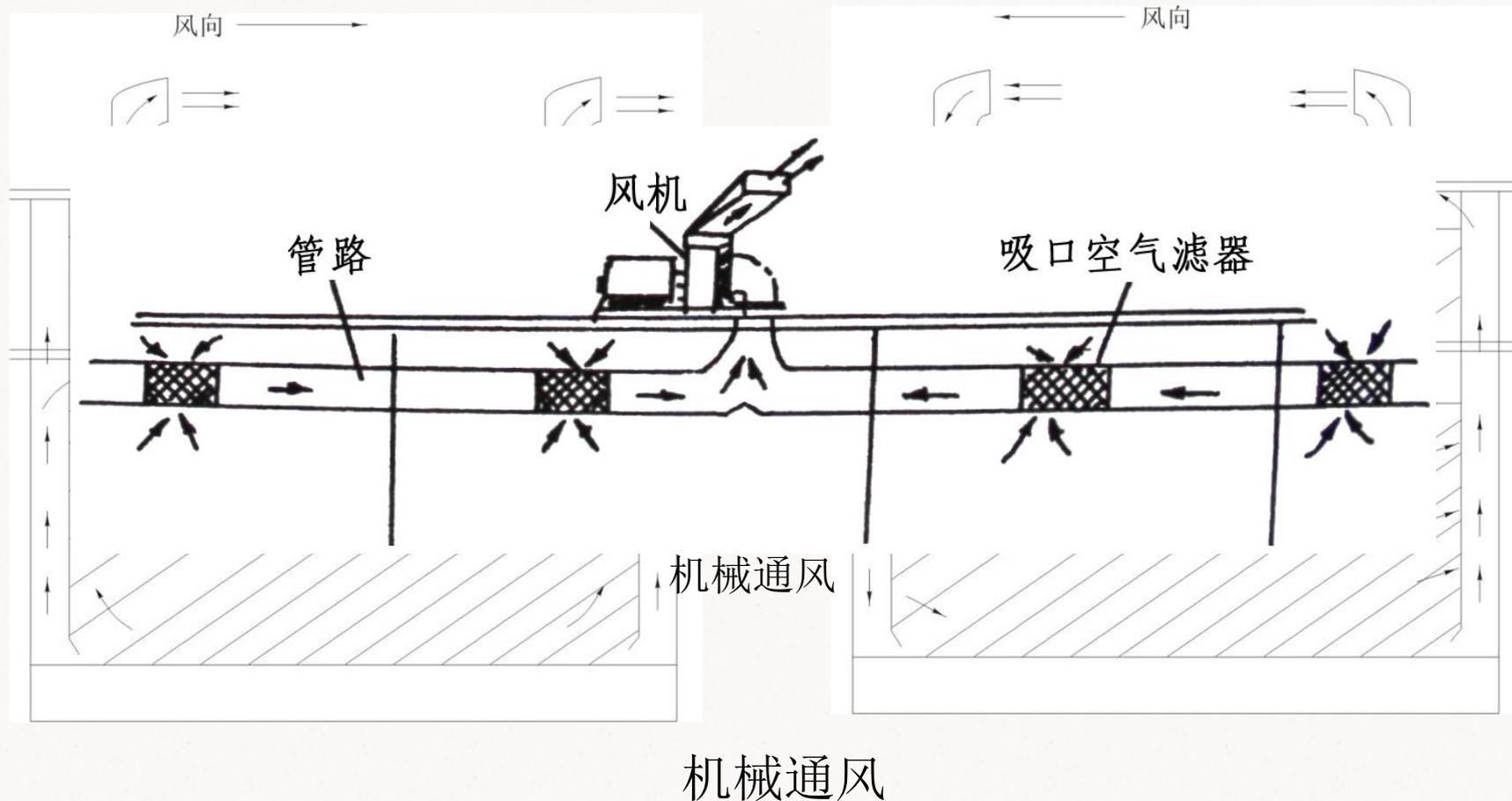
### 三、航行途中货物的保管

#### 1. 航行中对货物保管的内容

#### 2. 货舱通风

(1) 通风的目的

(2) 通风的方式



## (3) 降低舱内露点

湿球温度 (°C)	干、湿球温度差值 (°C)																						
	0.0	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0	10.5	11.0
-5	-6	-7	-8	-9	-11	-13	-14	-17	-19	-22	-27	-38											
-4	-5	-6	-7	-8	-9	-11	-12	-14	-16	-19	-22	-26	-33										
-3	-3	-4	-5	-7	-8	-9	-11	-12	-14	-16	-19	-22	-26	-32	-37								
-2	-2	-3	-4	-5	-6	-7	-9	-10	-12	-14	-16	-18	-21	-25	-30	-31							
-1	-1	-2	-3	-4	-5	-6	-7	-8	-10	-11	-13	-15	-17	-20	-23	-28	-36						
0	0	-1	-2	-2	-3	-4	-5	-7	-8	-9	-10	-12	-14	-16	-19	-22	-26	-32					
1	1	0	-1	-1	-2	-3	-4	-5	-6	-7	-9	-10	-12	-13	-15	-18	-20	-24	-29	-39			
2	2	1	1	0	-1	-2	-3	-4	-5	-6	-7	-8	-9	-11	-12	-14	-17	-19	-22	-27	-34		
3	3	2	2	1	0	-1	-1	-2	-3	-4	-5	-6	-7	-9	-10	-12	-13	-15	-18	-21	-24	-30	-40
4	4	3	3	2	2	1	0	-1	-2	-2	-3	-4	-5	-7	-8	-9	-11	-12	-14	-16	-19	-22	-26
5	5	4	4	3	3	2	1	1	0	-1	-2	-3	-4	-5	-6	-7	-8	-9	-11	-13	-15	-17	-19
6	6	6	5	4	4	3	3	2	1	1	0	-1	-2	-3	-4	-5	-6	-7	-8	-10	-11	-13	-15
7	7	7	6	6	5	4	4	3	3	2	1	1	0	-1	-2	-3	-4	-5	-6	-7	-8	-10	-11
8	8	8	7	7	6	6	5	4	4	3	3	2	1	1	0	-1	-2	-3	-4	-5	-6	-7	-8
9	9	9	8	8	7	7	6	6	5	5	4	3	3	2	1	1	0	-1	-2	-3	-4	-5	-6
10	10	10	9	9	8	8	7	7	6	6	5	5	4	4	3	2	2	1	0	-1	-1	-2	-3
11	11	11	10	10	9	9	9	8	8	7	7	6	6	5	4	4	3	3	2	1	0	0	-1
12	12	12	11	11	11	10	10	9	9	8	8	7	7	6	6	5	5	4	4	3	2	2	1
13	13	13	12	12	12	11	11	19	10	10	9	9	8	8	7	7	6	6	5	5	4	4	3
14	14	14	13	13	13	12	12	12	11	11	10	10	10	9	9	8	8	7	7	6	6	5	5
15	15	15	14	14	14	13	13	13	12	12	12	11	11	10	10	9	8	8	8	8	7	7	6
16	16	16	15	15	15	15	14	14	14	13	13	13	12	12	11	11	11	10	10	9	9	8	8
17	17	17	16	16	16	16	15	15	15	14	14	14	13	13	13	12	12	12	11	11	10	10	10
18	18	18	18	17	17	17	16	16	16	16	15	15	15	14	14	14	13	13	13	12	12	11	11
19	19	19	19	18	18	18	17	17	17	17	16	16	16	15	15	15	15	14	14	14	13	13	13
20	20	20	20	19	19	19	18	18	18	18	17	17	17	16	16	16	16	16	16	15	15	15	14
21	21	21	21	20	20	20	20	19	19	19	19	18	18	18	18	17	17	17	17	16	16	16	15
22	22	22	22	21	21	21	21	21	20	20	20	20	19	19	19	19	18	18	18	18	17	17	17
23	23	23	23	22	22	22	22	22	21	21	21	21	20	20	20	20	20	19	19	19	19	18	18
24	24	24	24	23	23	23	23	23	22	22	22	22	21	21	21	21	21	20	20	20	20	20	19
25	25	25	25	24	24	24	24	24	24	23	23	23	23	23	22	22	22	22	21	21	21	21	21

$t_{内} = 20^{\circ}\text{C}$

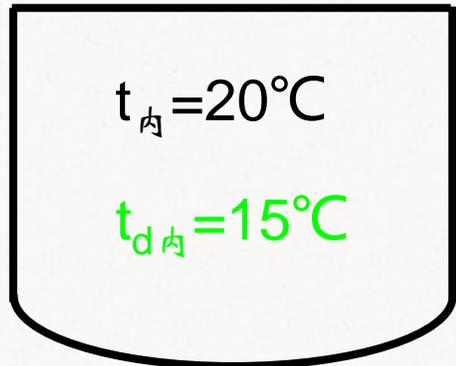
$t_{d内} = 15^{\circ}\text{C}$

当  $t_{d外} < t_{d内}$   
且  $t_{外} > t_{d内}$

$t_{外} = 16^{\circ}\text{C}$     $t_{d外} = 10^{\circ}\text{C}$

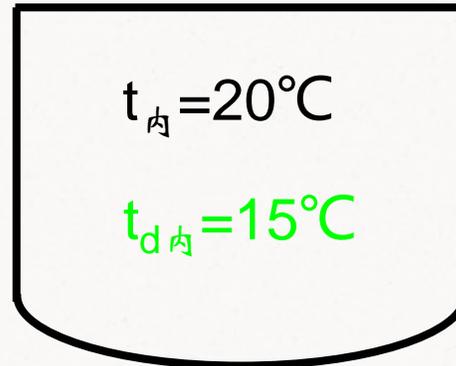
可采取旺盛通风  
(对流循环通风)

# 杂货安全装运



$t_{外} = 12^{\circ}\text{C}$        $t_{d外} = 10^{\circ}\text{C}$

当  $t_{d外} < t_{d内}$   
且  $t_{外} < t_{d内}$   
应采取缓慢排气通风



$t_{外} = 22^{\circ}\text{C}$        $t_{d外} = 18^{\circ}\text{C}$

当  $t_{d外} > t_{d内}$   
应断绝通风或  
采取“再循环”通风  
(货舱干燥通风)